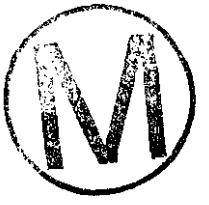
APPENDIX C1
CHEMICAL COMPATIBILITY ANALYSIS
OF WASTE FORMS AND CONTAINER MATERIALS



APPENDIX C1
CHEMICAL COMPATIBILITY ANALYSIS OF WASTE FORMS AND CONTAINER MATERIALS

The chemical compatibility analysis was carried out with all defense generated, contact-handled (CH) and remote-handled (RH) transuranic (TRU)-mixed waste streams reported in the Waste Isolation Pilot Plant (WIPP) Transuranic Waste Baseline Inventory Report (WTWBIR) (DOE, 1995). A summary of these waste streams is given in Table C-1 (Chapter C). The reported content of CH and RH streams will be verified through the WIPP Generator/Storage Site Waste Screening and Acceptance Audit Program (Appendix C11).

All information for the chemical lists and compatibility study is maintained in databases on a personal computer. The chemicals reported by the generator sites are classified into reaction groups as defined by the U.S. Environmental Protection Agency (EPA) document, A Method for Determining the Compatibility of Hazardous Wastes (Hatayama et al., 1980). The chemical lists are derived from the TRUPACT-II database, EPA hazardous waste codes listed in the WTWBIR, and waste descriptions.

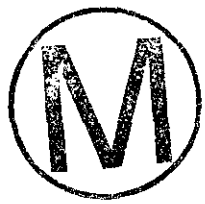
A database program was developed to evaluate the chemical compatibility of the WTWBIR waste streams. Potential incompatibilities are defined on Figure 6 of the EPA document (Hatayama et al., 1980), which identifies combinations of chemical groups that are incompatible and the consequences (e.g., heat generation) of mixing incompatible chemical groups. All incompatible mixtures have been entered into a reference data base to be used in assessing the chemical compatibility of a given list of chemicals. The logic of the program used in evaluating the chemical compatibility by content code is described in detail below.

As an initial step, the program indexes the entire database according to the WTWBIR waste stream codes. The program then locates the first reaction group within the first waste stream code and picks the highest concentration of any chemical in that group. The selected reaction group is then paired with every other reaction group in the waste stream to check for incompatibility. If a potential incompatibility is found, it is printed out along with the corresponding waste stream codes. After finding all potential incompatibilities for a given waste stream code, the program moves on to the next waste stream code until all waste stream codes have been processed.

To ensure accuracy, the reference database was printed and checked against the EPA document for chemical compatibility, and the WTWBIR waste stream database was printed and checked against the original WTWBIR forms from the generator sites. The list of potential chemical incompatibilities reported by the program was hand checked using the EPA document as a reference to assure proper functioning of the program. All potential chemical incompatibilities were then evaluated on a case-by-case basis to identify which, if any, of the reactions could occur, given the nature of the waste, and the its chemical constituents, and final waste form.

Waste streams are classified as "incompatible" if the potential exists for any of the following reactions:

- corrosion
- explosion
- heat generation
- gas generation (flammable gases)
- pressure build-up (nonflammable gases)
- toxic by-product generation



Each generator and storage site has produced a comprehensive list of all possible chemicals present in its waste. The chemical components found in each waste generation process are determined by examination of the process technology, by chemical analysis, or by process flow analysis. Under this system, all chemical inputs into the system are accounted for, even though all of these components may not be a part of the waste. For example, generator sites might include both acids and bases in their lists, even though the two groups have been neutralized prior to placement in a waste container.

In addition to the chemicals listed in Appendix 2 of the EPA document (Hatayama et al., 1980), the following components that exhibit toxicity characteristics defined under 40 CFR §261.24 were added to the chemical list in trace (<1 weight percent) quantities:

Group 3 Acids, Organic
- 2,4-D
- 2,4,5-TP (Silvex)

Group 17 Halogenated Organics
- Methoxychlor
- Toxaphene
- 2,4-D
- Hexachlorobutadiene
- Hexachloroethane
- Tetrachloroethylene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

All hazardous constituents listed in the Part A Permit are present in the chemical lists and accounted for in the compatibility analysis.

The compounds listed on the Material Safety Data Sheet for Radiac™ wash were added to the chemical compatibility assessment. The reactive compounds associated with Radiac™ wash are:

GROUP	COMPOUND	CONCENTRATION
3	citric acid	M
106	water	D

The compounds found in the fire suppressants in use at the WIPP facility were added to evaluate chemical compatibility of these materials with the test wastes. The following reactive compounds were added:

GROUP	COMPOUND	CONCENTRATION
14	diethylene glycol monobutyl ether	D
15	fluorosurfactants	D
106	water	D

Ansulite 6 percent AFFF (AFC-3) contains diethylene glycol monobutyl ether, fluorosurfactants, and water. The FORAY Dry Chemical Extinguishing Agent contains potassium aluminum silicate, magnesium aluminum silicate, monoammonium phosphate, ammonium sulfate, and methyl hydrogen polysiloxane, which are not hazardous reactive constituents.

To account for packaging, container, and backfill materials, the following components were added to the database for each content code in dominant (>10 weight %) quantities:

Group 10 Caustics
Magnesium Oxide

Group 23 Metals, other elemental and alloys as sheets, rods, moldings, drops, etc.
Low Carbon Steel D

Group 101 Combustible Materials
Polyethylene D

The chemical concentration levels are reported as either Trace (T) (<1% by weight), Minor (M) (1-10%), or Dominant (D) (>10%). The chemical list is divided into groups based on chemical properties and structure (e.g., acids, caustics, metals, etc.). If incompatible groups are combined, the possibility exists for the reactions listed above. For example, a reaction between Group 1 (Acids, Mineral, Non-oxidizing) and Group 10 (Caustics) could result in heat generation.

Possible chemical incompatibilities between compounds present in trace quantities (<1 percent by weight) and compounds present in concentrations $\geq$ 1 percent by weight (i.e., D x T, D x T1, D x T2, D x T3, M x T, M x T1, M x T2, or M x T3) are included in this report. However, interactions between compounds present in trace quantities (<1 percent by weight) and compounds present in concentrations $\leq$ 1 percent by weight do not pose an incompatibility problem for the following reasons:

- The trace chemicals reported by the sites are in concentrations well below the trace limit of 1 weight percent. Sampling programs show that the concentration levels of these compounds are significantly lower than the upper limit of 1 percent.

- The trace chemicals are usually dispersed in the waste, which further dilutes concentrations of these materials.

- Trace chemicals that might be incompatible with major and dominant materials/chemicals would have reacted during the waste treatment process prior to placement in waste containers.

- Because of restrictions imposed by the EPA on reporting of hazardous wastes, some chemicals are listed in trace quantities even if they have already reacted. Hazardous waste regulations as promulgated by the EPA (EPA, 1988) (known as the mixture rule) require that a mixture of any solid waste and a hazardous waste listed in 40 CFR Part 261, Subpart D, be considered a hazardous waste subject to Resource Conservation and Recovery Act regulations. However, Subpart D does not list minimum concentrations for these listed wastes, with the result that any such mixtures must be considered hazardous waste even if the Subpart D constituent is at or below detection limits.

- The waste is either solidified and immobilized (solidified materials) or present in bulk form as a solid (solid materials). In almost all cases, any possible reactions take place before the waste is generated in its final form.

- Total trace chemicals within a payload container are limited to less than 5 weight percent.

All potential incompatibilities between trace, minor, and dominant compounds have been analyzed on a case-by-case basis for each waste stream reported in Table C-2 (Chapter C). Some chemicals listed as being present in the waste have reacted prior to placement in a waste container. For example, a site listing a caustic (Group 10) and an acid (Group 1) in its waste has only the neutralized product present in an immobilized form. Further reactions of this type do not occur once the waste is neutralized in its final form. An additional constraint on the chemicals and materials that can be present within each waste stream code is their gas generation potential due to radiolysis.

Unresolved incompatibilities between trace and minor, trace and dominant, minor and dominant, minor and minor, or dominant and dominant waste constituents were identified and segregated. These wastes cannot be transported until the incompatibilities are resolved (NuPac, 1989). Table C1-1 presents the chemical compatibility analysis for the modified chemical lists for the

waste streams presented in Table C-2 (Chapter C). A list of explanations describing any noted incompatibilities precedes Table C1-1.

Summary of Potential Incompatibilities for Waste Forms and Container Material

The following is a listing and explanation of compatibility code numbers used to identify potential incompatibilities in Table C1-1. Where incompatibilities are noted, it is important to remember that these potential incompatibilities will be removed prior to shipment of the waste to WIPP. That is, unacceptable waste properties listed in Chapter C, Section C1-b will be removed prior to shipping. Verification of the compatibility of final waste forms will be carried out by the WIPP Generator/Storage Site Waste Screening and Acceptance Audit Program (Appendix C8).

Explanation Code Number Descriptions

00 (1 x 10, 2 x 10, 3 x 10, 5 x 10, 10 x 13, 10 x 17, 10 x 18, 10 x 19, 10 x 21, 10 x 22, 10 x 23, 10 x 24, 10 x 25, 10 x 27, 10 x 32, 10 x 102, 10 x 107) These potential incompatibilities result from the addition of magnesium oxide backfill material. However, the hydration of magnesium oxide results in the formation of brucite ($Mg[OH]_2$), which buffers the pH of the solution at approximately 8.5. Therefore, caustic conditions are not produced by the use of magnesium oxide backfill.

0a. (1 x 4) The potential chemical incompatibility is the possible dehydration or displacement reactions between non-oxidizing mineral acids (Group 1) and alcohols and glycols in waste forms (Group 4) resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

0aa. (1 x 10) The potential chemical incompatibility is the possible acid-base reaction between strong mineral acids (Group 1) and strong caustics (Group 10) resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

0aaa. (1 x 14) The potential chemical incompatibility is the possible hydrolysis reaction between strong mineral acids (Group 1) and ethers (Group 14), resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

0aaaa. (1 x 15) The potential chemical incompatibility is the possible formation of hydrogen fluoride when strong mineral acids (Group 1) mix with inorganic fluorides (Group 15), resulting in toxic gas generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

0b. (1 x 17) The potential chemical incompatibility is the possible reaction between strong mineral acids (Group 1) and halogenated organics (Group 17), resulting in generation of heat and toxic hydrogen halide fumes. The potential chemical incompatibility results from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

0bb. (1 x 19) The potential chemical incompatibility is the possible condensation reaction between strong mineral acids (Group 1) and ketones (Group 19), resulting in generation of heat. The potential chemical incompatibility results from reporting trace quantities (<1%) of non-oxidizing acid in generator waste streams. However, the non-oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

1. (1 x 23) The potential chemical incompatibility is the possible reaction between non-oxidizing mineral acids (Group 1) and metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The non-oxidizing mineral acids are present only in trace quantities (<1%) and are neutralized and bound in the cemented waste form. Due to the immobilization and prior reaction of the acids, the materials in this waste stream are considered chemically compatible.

2. (1 x 24) The potential chemical incompatibility is the tendency of non-oxidizing mineral acids (Group 1) to solubilize toxic metals and metal compounds (Group 24). The mineral acids are present only in trace quantities (<1%) and are neutralized and bound in the cemented waste form. Due to the immobilization and prior reaction of the non-oxidizing acids, the materials in this waste stream are considered chemically compatible.

3. (1 x 101) The potential chemical incompatibility is the possible reaction between non-oxidizing mineral acids (Group 1) and combustible materials (Group 101). The mineral acids are present only in trace quantities (<1%) and are neutralized and bound in the cemented waste form. An absorbent has been added to immobilize free liquids. Due to the immobilization and prior reaction of the non-oxidizing acids, the materials in this waste stream are considered chemically compatible.

3a. (1 x 102) The potential chemical incompatibility is the possible violent reaction between non-oxidizing mineral acids (Group 1) and explosives (Group 102). However, explosives are not allowed to be shipped to WIPP unless treatment renders them inert. Additionally, mineral acids are present only in trace quantities (<1%) and are neutralized prior to loading in waste containers. Therefore, the materials in this waste stream are considered chemically compatible.

3aa. (1 x 104) The potential chemical incompatibility is the possible reaction between non-oxidizing mineral acids (Group 1) and strong oxidizing agents (Group 104), resulting in heat and generation of toxic and corrosive gases. However, the mineral acids and oxidizing agents are present in trace quantities (<1%) and neutralized prior to loading in waste containers. Therefore, the materials in this waste stream are considered chemically compatible.

3b. (1 x 106) The potential chemical incompatibility is the possible reaction between mineral acids (Group 1) and water (Group 106), resulting in the generation of heat. This potential incompatibility results from the presence of water in Ansulite™ fire extinguishing agents and/or Radiac™ wash solutions and/or absorbed water. However, the mineral acids are present only in trace quantities (<1%) and are neutralized prior to loading in waste containers. In addition, the presence of any absorbed liquids are immobilized in an absorbent and would not be available for reaction.

3c. (2 x 3) The potential chemical incompatibility is the reaction of oxidizing mineral acids (Group 2) with organic acids (Group 3) resulting in heat and gas generation. The potential chemical incompatibility results from the use of citric acid in Radiac™ wash solutions. The solid citric acid is diluted during preparation of the Radiac™ wash and is often further diluted prior to use for decontamination. As a result, the potential for reactions of solid citric acid with oxidizing mineral acids in waste forms is removed.

3d. (2 x 4) The potential chemical incompatibility is the possible dehydration or displacement reactions between oxidizing mineral acids (Group 2) and alcohols and glycols (Group 4), resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3e. (2 x 10) The potential chemical incompatibility is the possible acid-base reaction between oxidizing mineral acids (Group 2) and strong caustics (Group 10), resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3ee. (2 x 13) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and esters (Group 13), resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3f. (2 x 14) The potential chemical incompatibility is the possible hydrolysis reaction between oxidizing mineral acids (Group 2) and ethers (Group 14), resulting in heat generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3g. (2 x 15) The potential chemical incompatibility is the possible formation of hydrogen fluoride when oxidizing mineral acids (Group 2) mix with inorganic fluorides (Group 15), resulting in toxic gas generation. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3gg. (2 x 16) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and aromatic hydrocarbons (Group 16). Oxidation of the hydrocarbon may produce enough heat to ignite the mixture. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3h. (2 x 17) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and halogenated organics (Group 17), resulting in generation of heat and toxic hydrogen halide fumes. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3i. (2 x 19) The potential chemical incompatibility is the possible condensation reaction between oxidizing mineral acids (Group 2) and ketones (Group 19), resulting in generation of heat. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

3j. (2 x 20) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and mercaptans (Group 20), resulting in generation of heat and toxic hydrogen sulfide fumes. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

4. (2 x 23) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The oxidizing mineral acids are present only in trace quantities (<1%) and are reacted prior to loading in waste containers. In addition, the oxidizing mineral acids are fixed in the solidified product and would not be available to react with the metal.

5. (2 x 23) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The oxidizing mineral acids are present only in trace quantities (<1%) as residues on glass or rubber gloves, and not as free liquids that could react with metals.

6. (2 x 24) The potential chemical incompatibility is the solubilization of toxic metals and metal compounds (Group 24) in oxidizing mineral acids (Group 2). The oxidizing mineral acids are present only in trace quantities (<1%) and are reacted prior to loading in waste containers. In addition, the oxidizing mineral acids are fixed in the solidified product and would not be available to react with the metal.

7. (2 x 24) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and toxic metals and compounds (Group 24). The oxidizing mineral acids are present only in trace quantities (<1%) as residues on glass or rubber gloves, and not as free liquids that could react with metals.

7a. (2 x 27) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and nitro compounds (Group 27), resulting in generation of heat and toxic nitrogen oxide fumes. The potential chemical incompatibility results from reporting trace quantities (<1%) of oxidizing acid in generator waste streams. However, the oxidizing mineral acids are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

8. (2 x 101) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and combustible materials (Group 101). The oxidizing mineral acids are present only in trace quantities (<1%) as residues on glass or rubber gloves, and not as free liquids that could react with metals.

9. (2 x 101) The potential chemical incompatibility is the possible decomposition of combustible materials (Group 101) by the oxidizing mineral acids (Group 2). The oxidizing mineral acids are present only in trace quantities (<1%) and are reacted prior to loading in waste containers. In addition, the oxidizing mineral acids are fixed in the solidified product and would not be available to react with the combustible materials.

9a. (2 x 102) The potential chemical incompatibility is the possible violent reaction between oxidizing mineral acids (Group 2) and explosives (Group 102). However, explosives are not allowed to be shipped to WIPP unless treatment renders them inert. Additionally, mineral acids are present only in trace quantities (<1%) and are neutralized prior to loading in waste containers. Therefore, the materials in this waste stream are considered chemically compatible.

10. (2 x 106) The potential chemical incompatibility is the possible dissolution of oxidizing mineral acids (Group 2) by water (Group 106). The oxidizing mineral acids are present only in trace quantities (<1%) and reacted prior to loading in waste containers. Both the water and the oxidizing mineral acids are fixed in the solidified product and would not be available for reaction.

10a. (2 x 106) The potential chemical incompatibility is the possible reaction between oxidizing mineral acids (Group 2) and water (Group 106), resulting in the generation of heat. This potential incompatibility results from the presence of water in Ansulite™ fire extinguishing agents and/or Radiac™ wash solutions and/or absorbed water. However, the mineral acids are present only in trace quantities (<1%) and are neutralized prior to loading in waste containers. In addition, the presence of any absorbed liquids are immobilized in an absorbent and would not be available for reaction.

11. (3 x 4) The potential chemical incompatibility is the possible reaction between organic acids (Group 3) and alcohols and glycols (Group 4). The organic acids are immobilized in a cement matrix and not available to react with the alcohols and glycols. The alcohols and glycols are also immobilized in the solidified product.

11aa. (3 x 4) The potential chemical incompatibility is the heat generated by polymerization of alcohols and glycols (Group 4) by organic acids (Group 3). Carboxylic acids with α-halogen substituents, or α- or β-hydroxyl substituents (e.g., citric acid) are the main concern among the organic acids (Group 3). The potential chemical incompatibility results from the use of citric acid in Radiac™ wash solutions. The solid citric acid is diluted during preparation of the Radiac™ wash and is often further diluted prior to use for decontamination. As a result, the potential for reactions of solid citric acid with alcohols and glycols (Group 4) that are dispersed and fixed in waste forms is removed.

11b. (3 x 10) The potential chemical incompatibility is the possibility of acid-base reactions. The organic acids (Group 3) are neutralized in a cement matrix and are not available to react with the Caustics (Group 10). Thus, this potential chemical incompatibility would not occur.

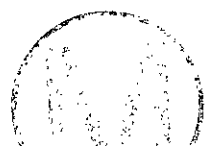
11c. (3 x 10) The potential chemical incompatibility is the heat generated by reactions of organic acids (Group 3) with caustics (Group 10). The potential chemical incompatibility results from the use of citric acid in Radiac™ wash solutions. The solid citric acid is diluted during preparation of the Radiac™ wash and is often further diluted prior to use for decontamination. As a result, the potential for reactions of solid citric acid with caustics in test waste forms is removed. The caustic in the waste forms is calcium oxide. Thus, the more significant incompatibility is potential hydrolysis reaction between water and calcium oxide to release heat. Because the calcium oxide is dispersed in the wastes, reaction is considered unlikely.

11d. (3 x 15) The potential chemical incompatibility is toxic and corrosive fumes generated by reactions of organic acids (Group 3) with metal fluoride salts (Group 15). The potential chemical incompatibility results from the use of citric acid in Radiac™ wash solutions. The solid citric acid is diluted during preparation of the Radiac™ wash and is often further diluted prior to use for decontamination. As a result, the potential for reactions of solid citric acid with fluoride salts in waste forms is removed.

12. (3 x 24) The potential chemical incompatibility is the possible reaction between organic acids (Group 3) and toxic metals and compounds (Group 24). The organic acids are basified prior to cementation and do not exist as free acids in the resulting product. Based on the immobilization of the acids, reactions are considered highly unlikely. In this case, solubilization is not possible.

12aa. (3 x 24) The potential chemical incompatibility is solubilization of toxic metals (Group 24) by complexation with organic acids (Group 3). The potential chemical incompatibility results from the use of citric acid in Radiac™ wash solutions. The solid citric acid is diluted during preparation of the Radiac™ wash and is often further diluted prior to use for decontamination. As a result, the potential for reactions of solid citric acid with toxic metals in waste forms is removed.

12bbb. (3 x 104) The potential chemical incompatibility is decomposition of the hydrocarbon moiety of organic acids (Group 3) by oxidizing agents (Group 104) resulting in heat and gas formation. The potential chemical incompatibility results from the use of citric acid in Radiac™ wash solutions. The solid citric acid is diluted during preparation of the Radiac™ wash and is often further diluted prior to use for decontamination. As a result, the potential for reactions of solid citric acid with oxidizing agents that are dispersed and fixed in waste forms is removed.



12bb. (4 x 104) The potential chemical incompatibility is formation of unstable compounds by reaction of alcohols and glycols (Group 4) with oxidizing agents (Group 104). However the alcohols and glycols are present as trace quantities (<1%) in the waste stream, and they are further isolated by dissemination within the waste stream. Additionally, oxidizing agents must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

12b. (7 x 17) The potential chemical incompatibility between amines (Group 7) and halogenated organics (Group 17) would not occur because the halogenated organics are solidified and are not available for reaction.

12c. (7 x 24) The potential chemical incompatibility is the possible increase in the solubility of toxic metal compounds in water due to amines acting as potential surfactants. The amines are present only in trace (<1%) and are immobilized through absorption on sorbent materials. Also, these solid waste forms usually contain very little water and excess sorbents are added to waste containers to sorb any fluids.

12d. (7 x 104) The potential chemical incompatibility is formation of toxic nitrogen oxide fumes by reaction of amines (Group 7) with oxidizing agents (Group 104). However, the alcohols and glycols are present as trace quantities (<1%) in the waste stream, they are further isolated by dissemination within the waste stream. Additionally, oxidizing agents must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

12e. (8 x 23) The potential chemical incompatibility is combustion of some azo compounds (Group 8) on contact with surfaces of metal sheets, rods, drops, etc (Group 23). However the azo compounds are present as trace quantities (<1%) in the waste stream and are further isolated by dissemination within the waste stream. Therefore, spontaneous combustion by reaction with metal surfaces is unlikely.

12f. (8 x 106) The potential chemical incompatibility is the generation of nitrogen gas by reaction of some azo compounds (Group 8) with water (Group 106). This potential incompatibility results from the presence of water in Ansulite™ fire extinguishing agents and/or Radiac™ wash solutions and/or absorbed water. However, the azo compounds are present only in trace quantities (T<1%) and are disseminated in the waste containers, which minimizes their potential to form nitrogen gas. In addition, the presence of any absorbed liquids are immobilized in an absorbent and would not be available for reaction.

13. (10 x 17) The potential chemical incompatibility is the possible reaction between caustics (Group 10) and halogenated organics (Group 17). The caustic in this content code is calcium oxide, a solid, which is dispersed in the chloride salts. The halogenated

organics are present in only trace quantities (T<1%) and are absorbed, immobilized, or solidified. Due to the immobilization of the calcium oxide in the salt, reactions are considered highly unlikely.

13a. (10 x 19) The potential chemical incompatibility is the possible self-condensation of ketones (Group 19) catalyzed by caustics (Group 10). The caustic in this content code is calcium oxide, a solid, which is dispersed in the chloride salts. Due to the immobilization of the calcium oxide in salt, reactions are considered highly unlikely.

14. (10 x 23) The potential incompatibility is the possible reaction between caustics (Group 10) metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The caustic in this waste stream code is calcium oxide, a solid, which is dispersed in the chloride salts. Due to the immobilization of the calcium oxide in salt, dissolution of metals in caustics is not possible.

15. (10 x 23) The potential incompatibility is the possible dissolution of metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) in caustics (Group 10). The caustics are present only in trace quantities (<1%) and are reacted prior to loading in waste containers. In addition, the caustics are fixed in the cemented sludge and would not be available to react with the metals.

16. (10 x 24) The potential chemical incompatibility is the possible solubilization of toxic metals (Group 24) in caustics (Group 10). The caustic in this content code is calcium oxide, a solid, which is dispersed in the chloride salts. In this case, solubilization is not possible.

16a. (10 x 24) The potential incompatibility is the possible solubility of toxic metals (Group 24) in caustics (Group 10). The caustics are present only in trace (<1% quantities and are reacted prior to loading in waste containers. In addition, the caustics are fixed in the cemented sludge and would not be available to react with the metals.

16b. (10 x 27) The potential chemical incompatibility is the formation of salts from nitro alkanes (Group 27) and caustics (Group 10) in the presence of water. The only caustic in this content code is calcium oxide, a solid, which is dispersed in the chloride salts. In addition, liquids are immobilized through absorption on sorbent materials. Due to the immobilization of the caustic in the fused salt, this reaction would not occur.

16c. (10 x 102) The potential chemical incompatibility is the possible violent reaction between caustics (Group 10) and explosives (Group 102) due to the generation of heat. However, explosives are not allowed to be shipped to WIPP unless treatment renders them inert. Additionally, caustics are present only in minor quantities (<10%) and are

neutralized prior to loading in waste containers. Therefore, the materials in this waste stream are considered chemically compatible.

17. (10 x 107) This potential incompatibility is an artifact of the EPA method. Calcium oxide appears in Groups 10 and 107, and is compatible within itself.

17a. (14 x 104) This potential incompatibility is the reaction of ethers (Group 14) with strong oxidizers (Group 104) to produce heat, and possibly ignition or explosions. This incompatibility arises from the presence of diethylene glycol monobutyl ether in Ansulite™ fire extinguishing agents. However, the strong oxidizers are present in trace quantities (<1%) and disseminated in the waste, making ignition or explosions unlikely in the event the fire extinguishers are used.

17b. (14 x 107) This potential chemical incompatibility is the reaction of ethers (Group 14) with water reactives (Group 107). This incompatibility arises from the presence of diethylene glycol monobutyl ether in Ansulite™ fire extinguishing agents. However, the water reactive substances are present in trace quantities (<1%) and disseminated in the waste, making reactions unlikely in the event the fire extinguishers are used.

18. (15 x 107) This potential chemical incompatibility is the reaction of fluorides (Group 15) and water reactive substances (Group 107). The solid fluorides are present in only trace quantities (T<1%) and form part of the pyrochemical salt matrix. Calcium oxide, the only water reactive substance present, is a solid dispersed in the pyrochemical salt matrix. These salts always occur with each other and are compatible.

18a. (17 x 20) The potential chemical incompatibility is the possible reaction between halogenated organics (Group 17) and mercaptans (Group 20), resulting in generation of heat. The potential chemical incompatibility results from reporting trace quantities (<1%) of halogenated organics and mercaptans in generator waste streams. However, the chemicals are neutralized prior to packaging, and the materials in this waste stream are considered chemically compatible.

19. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The halogenated organics are present in only trace quantities (T1<1%) and are fixed in cemented sludge and would not be available to react with the metals.

20. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops, etc. (Group 23). The halogenated organics are present in only trace quantities (T<1%) and are absorbed on combustibles. The halogenated organics are not present as free liquids to react with the metals.

21. (17 x 23) The potential chemical incompatibility is the potential reaction between halogenated organics (Group 17) and metals and other elemental alloys as sheets, rods, drops, moldings, etc. (Group 23). Aluminum and magnesium in bulk forms are especially reactive with halogenated hydrocarbons, releasing much heat. Although this is a potential incompatibility, the potential effects are considered minimal for the following reasons. First, the halogenated hydrocarbons are only present in trace quantities (<1 percent by weight) and are immobilized through absorption on sorbent materials or solidification with calcium silicates or gypsum-base processes. Second, although the metals of concern may occur in dominant quantities in the content code, the metals only occur as large pieces and not in powder form. Due to the trace quantities of immobilized halogenated organics and the non-powder size of the metal pieces, any reaction that may occur will produce minimal heat.

22. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops, etc. (Group 23). The halogenated organics are present in only very small trace quantities (<1 part per million) as residual films on the glass and not as free liquids that could react with metals.

23. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The halogenated organics are present in only trace quantities (<1%) as coatings on solid organic materials and are not present as free liquids that could react with metals.

24. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The halogenated organics are present in only trace quantities (<1%) as coating on the inorganic solid materials and are not present as free liquids that could react with metals.

25. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23). The halogenated organics are fixed in the cemented product and would not be available for reaction.

26. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops, etc. (Group 23). The halogenated organics are fixed in the solidified product and are not available for reaction with the metals.

27. (17 x 23) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with metals and other elemental alloys, as sheets, rods, moldings, drops, etc. (Group 23). An absorbent has been added to immobilize any free liquids that may exist. Due to the trace quantities and immobilization of the halogenated organics, reactions are highly unlikely.

28. (17 x 104) The potential chemical incompatibility is the reaction of halogenated organics (Group 17) with oxidizing agents (Group 107), resulting in the liberation of heat and formation of toxic gases. The halogenated organics are present in only trace quantities (<1%) and are not in the form of free liquids. Additionally, the oxidizing agents are neutralized prior to loading waste containers. Therefore, based on the neutralization of the oxidizing agents, reactions are considered highly unlikely.

28a. (18 x 106) The potential incompatibility is the possible reaction between isocyanates (Group 18) with water (Group 106). The isocyanates are present only in trace quantities (<1%). The water is usually fixed in the solidified product and would not be available for reaction.

28aa. (18 x 106) The potential chemical incompatibility is between isocyanates (Group 18) and water (Group 106) to generate carbon dioxide gas and heat. The potential chemical incompatibility results from the use of water in Ansulite™ fire extinguishing agents and Radiac™ wash solutions. However, isocyanates in the waste forms are present in trace quantities (<1%), are neutralized and fixed prior to loading the waste containers, and are not available for reaction. Therefore, the final waste form contains compatible materials.

28aaa. (19 x 20) The potential chemical incompatibility is the reaction between ketones (Group 19) and mercaptans (Group 20), resulting in heat generation. These chemicals are present only in trace quantities (<1%) as coatings on laboratory glassware. Therefore, contact between the chemicals, if it occurs, will be limited.

28b. (21 x 101) The potential chemical incompatibility is the reaction of alkali and alkaline earth metals (Group 21) with residual water present in the combustible materials (101), resulting in heat generation and ignition of the combustible materials. However, the combustible materials are polyethylene and polyvinyl chloride packaging materials which contain no residual water. Additionally, alkali and alkaline earth metals must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

28c. (21 x 104) The potential chemical incompatibility is the violent reaction between alkali and alkaline earth metals (Group 21) and oxidizing agents (Group 104). Oxidizing agents are present in trace quantities (<1%) and are neutralized prior to packaging

Additionally, alkali and alkaline earth metals must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

28d. (21 x 106) The potential chemical incompatibility is the violent reaction between alkali and alkaline earth metals (Group 21) and water (Group 106), resulting in the evolution of hydrogen gas and formation of strong caustics. However, alkali and alkaline earth metals must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

28e. (22 x 106) The potential chemical incompatibility is the reaction of metal powders (Group 22) with water (Group 106), resulting in the evolution of hydrogen gas and production of heat. Metal powders or shavings are present as trace quantities (<1%) on paper, rags, and rubber. This potential incompatibility results from the presence of water in Ansulite™ fire extinguishing agents and/or Radiac™ wash solutions and/or absorbed water. However, metal powders or shavings are present as trace quantities (<1%) on paper, rags, and rubber, which minimizes their potential to form hydrogen gas. In addition, the presence of any absorbed liquids are immobilized in an absorbent and would not be available for reaction.

29. (23 x 104) The potential incompatibility is the possible reaction between metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) and oxidizing agents (Group 104). The oxidizing agents are present only in trace quantities (<1%) and reacted prior to loading in waste containers. The waste is mixed with cement to absorb any residual liquid. Due to the immobilization and prior reaction of the oxidizing agents, reactions are highly unlikely.

30. (23 x 104) The potential incompatibility is the possible reaction between metals, other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) and oxidizing agents (Group 104). The oxidizing agents are present only in trace quantities (<1%) and dissolved in aqueous solutions that were cemented into a solid monolith-type structure. Due to the immobilization and prior reaction of the oxidizing agents, reactions will not occur.

31. (23 x 107) The potential incompatibility is the possible reaction between metals and other elemental alloys, as sheets, rods, moldings, drops, etc. (Group 23) and water reactive substances (Group 107). The outer low carbon steel drum is the only Group 23 metal found in this content code. Calcium oxide, the only water reactive substance present, is a solid dispersed in the chloride salts. Based on the immobilization of the calcium oxide in the salt, reactions are considered highly unlikely.

32. (23 x 107) The potential incompatibility is the possible reaction between metals and other elemental alloys as sheets, rods, moldings, drops, etc. (Group 23) and water reactive substances (Group 107). Calcium oxide, the only water reactive substance present, is a solid dispersed in the chloride salts. Based on the immobilization of the calcium oxide in the salt, reactions are considered highly unlikely.

33. (24 x 106) The potential chemical incompatibility is the possible solubilization of toxic metals (Group 24), which is not a concern since the water (Group 106) from the sludge is fixed in the cemented product and would not be available for reaction.

33a. (24 x 106) The potential chemical incompatibility is the possible solubilization of toxic metals (Group 24) by water (Group 106). This potential chemical incompatibility results from the use of water in Ansulite™ fire extinguishing agents or Radiac™ wash solutions. Metals in the test waste forms are present in trace quantities (T<1%) as large pieces and not in powdered form. As a result, only minimal heat is expected to be formed.

34. (24 x 106) The potential incompatibility is the possible solubilization of toxic metals (Group 24). The water (Group 106) is fixed the in the cemented product and would not be available for reaction.

35. (24 x 107) The potential incompatibility is the possible reaction between toxic metals and metal compounds (Group 24) and water reactive substances (Group 107). The metals are present only in trace quantities (<1% by weight). Calcium oxide, the only water reactive substance present, is a solid dispersed in the chloride salts. Based on the immobilization of the calcium oxide in the salt, reactions are considered highly unlikely.

36. (24 x 107) The potential incompatibility is the possible reaction between toxic metals and metal compounds (Group 24) and water reactive substances (Group 107). Calcium oxide, the only water reactive substance present, is dispersed in chloride salts. Based on the immobilization of the calcium oxide in the salts, reactions are considered highly unlikely.

36a. (25 x 101) The potential chemical incompatibility is the reaction of nitrides (Group 25) with residual water present in the combustible materials (Group 101), resulting in formation of ammonia gas, heat generation, and possible ignition of the combustible materials. However, the combustible materials are polyethylene and polyvinyl chloride packaging materials which contain no residual water. Additionally, any reactive nitrides must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

36aa. (25 x 106) The potential chemical incompatibility is the reaction of nitrides (Group 25) with water present in the combustible materials (101), resulting in formation of ammonia gas, heat generation, and possible ignition of the combustible materials. However, any reactive nitrides must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

36b. (27 x 104) The potential incompatibility is the possible reaction between nitro compounds (Group 27) and oxidizing agents (Group 107). Calcium oxide, the only water reactive substance present, is dispersed in chloride salts. Reactive oxidizing agents must be neutralized prior to shipment to WIPP. Based on the immobilization of the calcium oxide in the salts and neutralization of oxidizing agents, reactions are considered highly unlikely.

36c. (29 x 104) The potential incompatibility is the possible reaction between saturated aliphatics (Group 29) and oxidizing agents (Group 104). However, reactive oxidizing agents must be neutralized prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

36d. (101 x 102) The potential incompatibility is the possible oxidation reaction between combustibles (Group 101) and explosives (102). However, explosives must be reacted prior to shipment to WIPP. Therefore, the final waste form will contain compatible materials.

37. (101 x 104) The potential incompatibility is the possible reaction between combustible materials (Group 101) and oxidizing agents (Group 104). The oxidizing agents are present only in trace quantities (<1%) and are reacted prior to loading in waste containers. In addition, cement is added to absorb any residual liquid. Due to the immobilization and prior reaction of the oxidizing agents, this content code is considered to be chemically compatible.

38. (101 x 104) The potential incompatibility is the possible reaction between combustible materials (Group 101) and oxidizing agents (Group 104). The oxidizing agents are present only in trace quantities (<1%) and are fixed in the solidified product. Due to the immobilization and prior reaction of the oxidizing agents, this content code is considered to be chemically compatible.

39. (101 x 107) The potential incompatibility is the possible reaction between combustible and flammable materials (Group 101) and water reactive substances (Group 107). The dominant combustible material in Group 101 is the polyethylene rigid drum liner. Calcium oxide, the only water reactive substance present, is a solid dispersed in the chloride salts. Based on the immobilization of the calcium oxide in the salt, reactions are considered highly unlikely.

40. (102 x 104) The potential incompatibility is the possible violent reaction between explosives (Group 102) and oxidizing agents (Group 104). However, both of these groups must be neutralized before shipment to WIPP. Therefore, the final waste form will contain compatible materials.

41. (104 x 107) The potential incompatibility is the possible violent reaction between oxidizing agents (Group 104) and water reactives (Group 107). However, both of these groups must be neutralized before shipment to WIPP. Therefore, the final waste form will contain compatible materials.

List of References for Appendix C1

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TABLES

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
COMBUSTIBLE	IN W196	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
COMBUSTIBLE	IN W196	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x T	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W196	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	IN W196	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	IN W202	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
COMBUSTIBLE	IN W202	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x T	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W202	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	IN W202	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	IN W205	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	IN W205	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x T	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W205	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	IN W205	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	IN W250	AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	T x D	S	12c
		(7 x 24)			
COMBUSTIBLE	IN W250	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	0
		(10 x 23)			
COMBUSTIBLE	IN W250	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
COMBUSTIBLE	IN W250	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
COMBUSTIBLE	IN W252	AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	T x D	S	12c
		(7 x 24)			
COMBUSTIBLE	IN W252	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
COMBUSTIBLE	IN W252	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
COMBUSTIBLE	IN W252	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
COMBUSTIBLE	IN W254	AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	T x D	S	12c
		(7 x 24)			
COMBUSTIBLE	IN W254	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W254	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
COMBUSTIBLE	IN W254	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
COMBUSTIBLE	IN W256	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W256	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
COMBUSTIBLE	IN W256	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	IN W325	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W327	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W330	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	IN W330	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	IN W330	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33
		(24 x 106)			
COMBUSTIBLE	IN W336	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	T1 x D	H	00
		(1 x 10)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T1 x D	H	0aaa
		(1 x 14)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T1 x D	GT	0aaaa
		(1 x 15)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANA CODE NUMBER
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	GF H F	1
		(1 x 23)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T1 x D	H G	3
		(1 x 101)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T1 x D	H	3b
		(1 x 106)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T1 x D	H	00
		(2 x 10)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, OXIDIZING x ETHERS	T1 x D	H F	3f
		(2 x 14)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T1 x D	GT	3g
		(2 x 15)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	GF H F	4
		(2 x 23)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T1 x D	H F GT	9
		(2 x 101)			
COMBUSTIBLE	LA W004	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T1 x D	H	10a
		(2 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
COMBUSTIBLE	LA W004	ACIDS, ORGANIC x CAUSTICS	T x D	H	00
		(3 x 10)			
COMBUSTIBLE	LA W004	ACIDS, ORGANIC x FLUORIDES, INORANIC	T x D	GT	11d
		(3 x 15)			
COMBUSTIBLE	LA W004	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
COMBUSTIBLE	LA W004	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
COMBUSTIBLE	LA W004	CAUSTICS x METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES	D x T2	GF H	0
		(10 x 22)			
COMBUSTIBLE	LA W004	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
COMBUSTIBLE	LA W004	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T1	S	00
		(10 x 24)			
COMBUSTIBLE	LA W004	CAUSTICS x NITRIDES	D x T1	U	00
		(10 x 25)			
COMBUSTIBLE	LA W004	CAUSTICS x NITRO COMPOUNDS	D x T1	H E	00
		(10 x 27)			

x=Combined with

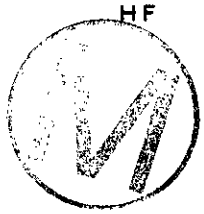
(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
COMBUSTIBLE	LA W004	CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES (10 x 32)	D x T1	H E	00
COMBUSTIBLE	LA W004	CAUSTICS x EXPLOSIVES (10 x 102)	D x T2	H E	00
COMBUSTIBLE	LA W004	CAUSTICS x WATER REACTIVE SUBSTANCES (10 x 107)	D x T	EXTREMELY	00
COMBUSTIBLE	LA W004	ETHERS x OXIDIZING AGENTS, STRONG (14 x 104)	D x T1	H F	17a
COMBUSTIBLE	LA W004	ETHERS x WATER REACTIVE SUBSTANCES (14 x 107)	D x T	EXTREMELY	17b
COMBUSTIBLE	LA W004	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES (15 x 107)	D x T	EXTREMELY	18
COMBUSTIBLE	LA W004	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (17 x 23)	T1 x D	H F	20
COMBUSTIBLE	LA W004	METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES x WATER & MIXTURES CONTAINING WATER (22 x 106)	T2 x D	GF H	28e
COMBUSTIBLE	LA W004	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG (23 x 104)	D x T1	H F	29



x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
COMBUSTIBLE	LA W004	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	D x T	EXTREMELY	31
		(23 x 107)			
COMBUSTIBLE	LA W004	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
		(24 x 106)			
COMBUSTIBLE	LA W004	NITRIDES x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T1 x D	H GF F	36a
		(25 x 101)			
COMBUSTIBLE	LA W004	NITRIDES x WATER & MIXTURES CONTAINING WATER	T1 x D	GF H	36aa
		(25 x 106)			
COMBUSTIBLE	LA W004	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T2	H E	36
		(101 x 102)			
COMBUSTIBLE	LA W004	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T1	H F G	38
		(101 x 104)			
COMBUSTIBLE	LA W004	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	D x T	EXTREMELY	39
		(101 x 107)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	T x D	H	00
		(1 x 10)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T x D	H	0aaa
		(1 x 14)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	LL M001	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T x D	GT	0aaaa
		(1 x 15)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	1
		(1 x 23)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G	3
		(1 x 101)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	3b
		(1 x 106)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
COMBUSTIBLE	LL M001	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	LL M001	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10
		(2 x 106)			
COMBUSTIBLE	LL M001	ACIDS, ORGANIC x CAUSTICS	T x D	H	00
		(3 x 10)			
COMBUSTIBLE	LL M001	ACIDS, ORGANIC x FLUORIDES, INORANIC	T x D	GT	11d
		(3 x 15)			
COMBUSTIBLE	LL M001	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
COMBUSTIBLE	LL M001	CAUSTICS x KETONES	D x T	H	0
		(10 x 19)			
COMBUSTIBLE	LL M001	CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	D x T	GF H	00
		(10 x 21)			
COMBUSTIBLE	LL M001	CAUSTICS x METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES	D x T	GF H	00
		(10 x 22)			
COMBUSTIBLE	LL M001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
COMBUSTIBLE	LL M001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI(CODE NUMBER(c
COMBUSTIBLE	LL M001	CAUSTICS x EXPLOSIVES	D x T	H E	00
		(10 x 102)			
COMBUSTIBLE	LL M001	ETHERS x OXIDIZING AGENTS, STRONG	D x T	H F	17a
		(14 x 104)			
COMBUSTIBLE	LL M001	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	26
		(17 x 23)			
COMBUSTIBLE	LL M001	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G F	28b
		(21 x 101)			
COMBUSTIBLE	LL M001	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	T x D	GF H	28d
		(21 x 106)			
COMBUSTIBLE	LL M001	METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES x WATER & MIXTURES CONTAINING WATER	T x D	GF H	28e
		(22 x 106)			
COMBUSTIBLE	LL M001	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	D x T	H F	30
		(23 x 104)			
COMBUSTIBLE	LL M001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
COMBUSTIBLE	LL M001	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T	H E	36d
		(101 x 102)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	LL M001	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T	H F G	38
		(101 x 104)			
COMBUSTIBLE	RL M009	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M010	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M010	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	RL M010	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	RL M011	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M011	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	RL M011	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	RL M012	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
COMBUSTIBLE	RL M012	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M012	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
COMBUSTIBLE	RL M013	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
COMBUSTIBLE	RL M013	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
COMBUSTIBLE	RL M013	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
COMBUSTIBLE	RL M013	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M013	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
COMBUSTIBLE	RL M013	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
COMBUSTIBLE	RL M014	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI(CODE NUMBER(c
COMBUSTIBLE	RL M014	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	RL M014	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	RL M015	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M015	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	RL M015	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	RL M016	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
COMBUSTIBLE	RL M016	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M016	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	RL M016	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
COMBUSTIBLE	RL M016	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	RL M022	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
COMBUSTIBLE	RL M022	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
COMBUSTIBLE	RL M022	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
COMBUSTIBLE	RL M023	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
FILTER	AW M003	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
FILTER	AW M003	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
FILTER	AW M003	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
FILTER	IN W214	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
FILTER	IN W214	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
FILTER	IN W214	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
FILTER	RF W066	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
FILTER	RF W066	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
FILTER	RF W066	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	21
		(17 x 23)			
FILTER	RF W067	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
FILTER	RF W067	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
FILTER	RF W067	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	23
		(17 x 23)			
GRAPHITE	IN W272	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
GRAPHITE	IN W272	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
GRAPHITE	IN W272	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
GRAPHITE	IN W275	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
GRAPHITE	IN W275	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
GRAPHITE	IN W275	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
GRAPHITE	IN W276	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
GRAPHITE	IN W276	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
GRAPHITE	IN W276	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
GRAPHITE	RF W060	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
GRAPHITE	RF W060	CAUSTICS x METALS & METAL COMPOUNDS,TOXIC	D x M	S	00
		(10 x 24)			
GRAPHITE	RF W060	METALS & METAL COMPOUNDS,TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a
		(24 x 106)			
HETEROGENEOUS	AW W020	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	AW W020	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
HETEROGENEOUS	AW W020	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	3
		(24 x 106)			
HETEROGENEOUS	IN M002	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN M002	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
HETEROGENEOUS	IN M002	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W139	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI(CODE NUMBER(c
HETEROGENEOUS	IN W139	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
HETEROGENEOUS	IN W139	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W169	AMINES, ALIPHATIC & AROMATIC x HALOGENATED ORGANICS	D x T	H G	12b
		(7 x 17)			
HETEROGENEOUS	IN W169	AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	D x T	S	12c
		(7 x 24)			
HETEROGENEOUS	IN W169	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	IN W169	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W169	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W169	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
HETEROGENEOUS	IN W169	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
HETEROGENEOUS	IN W170	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
HETEROGENEOUS	IN W170	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
HETEROGENEOUS	IN W170	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W170	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W170	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33
		(24 x 106)			
HETEROGENEOUS	IN W171	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
HETEROGENEOUS	IN W171	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
HETEROGENEOUS	IN W171	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W171	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER
HETEROGENEOUS	IN W171	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W172	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	IN W172	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W172	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	33a
		(17 x 23)			
HETEROGENEOUS	IN W186	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	IN W186	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W186	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W186	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
HETEROGENEOUS	IN W186	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
HETEROGENEOUS	IN W189	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W189	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
HETEROGENEOUS	IN W189	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W197	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	IN W197	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x T	GF H	
		(10 x 23)			
HETEROGENEOUS	IN W197	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W197	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W203	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W203	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
HETEROGENEOUS	IN W203	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W204	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W204	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W204	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W225	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W225	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
HETEROGENEOUS	IN W225	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W259	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W259	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOUS	IN W259	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W265	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	IN W265	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W265	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
HETEROGENEOUS	IN W265	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	2
		(17 x 23)			
HETEROGENEOUS	IN W265	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W269	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W271	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W271	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOUS	IN W271	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W281	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W281	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W281	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	T x D	H	00
		(1 x 10)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T x D	H	0aaa
		(1 x 14)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T x D	GT	0aaaa
		(1 x 15)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	1
		(1 x 23)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, NON-OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	T x M	S	2
		(1 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOUS	IN W283	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G	3
		(1 x 101)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	3b
		(1 x 106)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3
		(2 x 15)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	5
		(2 x 23)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	T x M	S	7
		(2 x 24)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	8
		(2 x 101)			
HETEROGENEOUS	IN W283	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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HETEROGENEOUS	IN W283	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	IN W283	CAUSTICS x ISOCYANATES	D x T	H P G	00
		(10 x 18)			
HETEROGENEOUS	IN W283	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W283	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
HETEROGENEOUS	IN W283	ETHERS x OXIDIZING AGENTS, STRONG	D x T	H F	17a
		(14 x 104)			
HETEROGENEOUS	IN W283	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
HETEROGENEOUS	IN W283	ISOCYANATES x WATER & MIXTURES CONTAINING WATER	T x D	H G	28aa
		(18 x 106)			
HETEROGENEOUS	IN W283	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	D x T	H F	30
		(23 x 104)			
HETEROGENEOUS	IN W283	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI(CODE NUMBER(c
HETEROGENEOUS	IN W283	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T	H F G	37
		(101 x 104)			
HETEROGENEOUS	IN W285	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W285	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
HETEROGENEOUS	IN W285	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
HETEROGENEOUS	IN W289	CAUSTICS x HALOGENATED ORGANICS	D x T	H	0
		(10 x 17)			
HETEROGENEOUS	IN W289	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W289	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W289	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
HETEROGENEOUS	IN W289	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
HETEROGENEOUS	IN W291	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
HETEROGENEOUS	IN W291	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
HETEROGENEOUS	IN W291	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W302	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	IN W302	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W302	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
HETEROGENEOUS	IN W323	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W323	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	IN W323	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
HETEROGENEOUS	IN W329	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W334	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W345	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	IN W351	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	INW2698	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	
		(10 x 23)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x ALCOHOLS & GLYCOLS	M x T	H	0a
		(1 x 4)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	M x D	H	0aa 00
		(1 x 10)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	M x D	H	0aaa
		(1 x 14)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	M x D	GT	0aaaa
		(1 x 15)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x HALOGENATED ORGANICS	M x T	H GT	0b
		(1 x 17)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x KETONES	M x T	H	0bb
		(1 x 19)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	M x T	S	2
		(1 x 24)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	M x T	H G	3
		(1 x 101)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x EXPLOSIVES	M x T	H E	3a
		(1 x 102)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x OXIDIZING AGENTS, STRONG	M x T	H GT	3aa
		(1 x 104)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	M x D	H	3b
		(1 x 106)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x ACIDS, ORGANIC	M x T	G H	3c
		(2 x 3)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x ALCOHOLS & GLYCOLS	M x T	H F	3d
		(2 x 4)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x CAUSTICS	M x D	H	3e 00
		(2 x 10)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x ETHERS	M x D	H F	3f
		(2 x 14)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	M x D	GT	3g
		(2 x 15)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x HALOGENATED ORGANICS	M x T	H F GT	3h
		(2 x 17)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x KETONES	M x T	H F	3i
		(2 x 19)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	M x T	S	6 7
		(2 x 24)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	M x T	H F GT	8 9
		(2 x 101)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x EXPLOSIVES	M x T	H E	9a
		(2 x 102)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	M x D	H	10a
		(2 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
HETEROGENEOUS	NT W001	ACIDS, ORGANIC x CAUSTICS	T x D	H	11b 00
		(3 x 10)			
HETEROGENEOUS	NT W001	ACIDS, ORGANIC x FLUORIDES, INORANIC	T x D	GT	11d
		(3 x 15)			
HETEROGENEOUS	NT W001	CAUSTICS x HALOGENATED ORGANICS	D x T	H	13 00
		(10 x 17)			
HETEROGENEOUS	NT W001	CAUSTICS x KETONES	D x T	H	13a 00
		(10 x 19)			
HETEROGENEOUS	NT W001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	16a 00
		(10 x 24)			
HETEROGENEOUS	NT W001	CAUSTICS x EXPLOSIVES	D x T	H E	16c 00
		(10 x 102)			
HETEROGENEOUS	NT W001	ETHERS x OXIDIZING AGENTS, STRONG	D x T	H F	17a
		(14 x 104)			
HETEROGENEOUS	NT W001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33 33a
		(24 x 106)			
HETEROGENEOUS	NT W001	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x M	GF H F	1
		(1 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOUS	NT W001	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x M	GF H F	4 5
		(2 x 23)			
HETEROGENEOUS	NT W001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x M	GF H	15 00
		(10 x 23)			
HETEROGENEOUS	NT W001	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x M	H F	20 24
		(17 x 23)			
HETEROGENEOUS	NT W001	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G F	28b
		(21 x 101)			
HETEROGENEOUS	NT W001	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	M x T	H F	3
		(23 x 104)			
HETEROGENEOUS	NT W001	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T	H E	36d
		(101 x 102)			
HETEROGENEOUS	NT W001	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T	H F G	38
		(101 x 104)			
HETEROGENEOUS	OR W040	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	OR W040	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOUS	OR W040	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	T x D	H	00
		(1 x 10)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T x D	H	0aaa
		(1 x 14)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T x D	GT	0aaaa
		(1 x 15)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	1
		(1 x 23)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G	3
		(1 x 101)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	3b
		(1 x 106)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOUS	OR W044	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	5
		(2 x 23)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	8
		(2 x 101)			
HETEROGENEOUS	OR W044	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			
HETEROGENEOUS	OR W044	ACIDS, ORGANIC x CAUSTICS	T2 x D	H	00
		(3 x 10)			
HETEROGENEOUS	OR W044	ACIDS, ORGANIC x FLUORIDES, INORANIC	T2 x D	GT	11d
		(3 x 15)			
HETEROGENEOUS	OR W044	AZO COMPOUNDS, DIAZO COMPOUNDS, & HYDRAZINES x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	H F G	12e
		(8 x 23)			
HETEROGENEOUS	OR W044	AZO COMPOUNDS, DIAZO COMPOUNDS, & HYDRAZINES x WATER & MIXTURES CONTAINING WATER	T2 x D	G	12f
		(8 x 106)			
HETEROGENEOUS	OR W044	CAUSTICS x ESTERS	D x T2	H	00
		(10 x 13)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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HETEROGENEOUS	OR W044	CAUSTICS x HALOGENATED ORGANICS	D x T2	H	00
		(10 x 17)			
HETEROGENEOUS	OR W044	CAUSTICS x KETONES	D x T2	H	00
		(10 x 19)			
HETEROGENEOUS	OR W044	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
HETEROGENEOUS	OR W044	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	OR W044	CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T1	H E	00
		(10 x 32)			
HETEROGENEOUS	OR W044	ETHERS x OXIDIZING AGENTS, STRONG	D x T1	H F	17a
		(14 x 104)			
HETEROGENEOUS	OR W044	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	H F	20 22
		(17 x 23)			
HETEROGENEOUS	OR W044	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	D x T1	H F	29
		(23 x 104)			
HETEROGENEOUS	OR W044	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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HETEROGENEOUS	OR W044	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T1	H F G	38
		(101 x 104)			
HETEROGENEOUS	OR W045	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	OR W045	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	OR W045	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	OR W047	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	OR W047	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	OR W047	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	RF M002	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	RF M002	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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HETEROGENEOUS	RF M002	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	RF M002	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
HETEROGENEOUS	RF M002	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
HETEROGENEOUS	RF W008	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	RF W008	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	RF W008	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	23
		(17 x 23)			
HETEROGENEOUS	RF W012	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	RF W012	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	RF W012	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
HETEROGENEOUS	RF W036	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	RF W036	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	RF W036	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	RF W036	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
HETEROGENEOUS	RF W036	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	?
		(24 x 106)			
HETEROGENEOUS	RL M004	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	RL M006	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
HETEROGENEOUS	RL M006	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	RL M006	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANA CODE NUMBER
HETEROGENEOUS	RL M006	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	RL M006	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
HETEROGENEOUS	RL M031	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	RL M201	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	SA W134	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	SR W026	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	SR W026	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
HETEROGENEOUS	SR W026	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	SR W026	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
HETEROGENEOUS	SR W026	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
HETEROGENEOUS	SR W027	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
HETEROGENEOUS	SR W027	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
HETEROGENEOUS	SR W027	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
HETEROGENEOUS	SR W027	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	f
		(10 x 23)			
HETEROGENEOUS	SR W027	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
HETEROGENEOUS	SR W027	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
HETEROGENEOUS	SR W027	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
HETEROGENEOUS	SR W027	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
INORGANIC NON-METAL	IN W161	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W161	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
INORGANIC NON-METAL	IN W161	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	IN W230	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
INORGANIC NON-METAL	IN W230	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W230	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
INORGANIC NON-METAL	IN W240	CAUSTICS x HALOGENATED ORGANICS	D x T3	H	00
		(10 x 17)			
INORGANIC NON-METAL	IN W240	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W240	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
INORGANIC NON-METAL	IN W240	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3 x D	H F	24
		(17 x 23)			
INORGANIC NON-METAL	IN W240	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	IN W243	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
INORGANIC NON-METAL	IN W243	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	5
		(2 x 23)			
INORGANIC NON-METAL	IN W243	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISCELLANEOUS	T x D	H F GT	8
		(2 x 101)			
INORGANIC NON-METAL	IN W243	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			
INORGANIC NON-METAL	IN W243	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
INORGANIC NON-METAL	IN W243	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
INORGANIC NON-METAL	IN W243	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation: P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER
INORGANIC NON-METAL	IN W243	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W243	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
INORGANIC NON-METAL	IN W243	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
INORGANIC NON-METAL	IN W243	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
INORGANIC NON-METAL	IN W243	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	5
		(2 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	8
		(2 x 101)			
INORGANIC NON-METAL	IN W245	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			
INORGANIC NON-METAL	IN W245	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
INORGANIC NON-METAL	IN W245	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W245	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
INORGANIC NON-METAL	IN W245	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
INORGANIC NON-METAL	IN W245	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	8
		(2 x 101)			
INORGANIC NON-METAL	IN W247	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			
INORGANIC NON-METAL	IN W247	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
INORGANIC NON-METAL	IN W247	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x T	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W247	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
INORGANIC NON-METAL	IN W247	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	IN W249	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	IN W249	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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INORGANIC NON-METAL	IN W249	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	MD M001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W026	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
INORGANIC NON-METAL	RF W026	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W026	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	
		(17 x 23)			
INORGANIC NON-METAL	RF W032	CAUSTICS x HALOGENATED ORGANICS	D x T3	H	00
		(10 x 17)			
INORGANIC NON-METAL	RF W032	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W032	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
INORGANIC NON-METAL	RF W032	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3 x D	H F	22
		(17 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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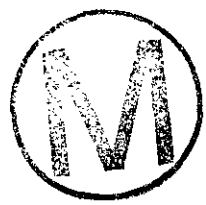
INORGANIC NON-METAL	RF W032	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	RF W052	CAUSTICS x HALOGENATED ORGANICS	D x T3	H	00
		(10 x 17)			
INORGANIC NON-METAL	RF W052	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W052	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
INORGANIC NON-METAL	RF W052	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3 x D	H F	22
		(17 x 23)			
INORGANIC NON-METAL	RF W052	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	RF W056	CAUSTICS x HALOGENATED ORGANICS	D x T3	H	00
		(10 x 17)			
INORGANIC NON-METAL	RF W056	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W056	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			



x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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(c) See text

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INORGANIC NON-METAL	RF W056	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T3 x D	H F	22
		(17 x 23)			
INORGANIC NON-METAL	RF W056	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
INORGANIC NON-METAL	RF W057	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
INORGANIC NON-METAL	RF W057	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
INORGANIC NON-METAL	RF W057	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	22
		(17 x 23)			
LEAD/CADMIUM METAL WASTE	AW M001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	AW M001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	AW M001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a 34
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	AW M002	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
LEAD/CADMIUM METAL WASTE	AW M002	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	AW M002	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	AW W016	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	AW W016	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	AW W016	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	AW W022	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	AW W022	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	AW W022	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a 34
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	ET M001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
LEAD/CADMIUM METAL WASTE	ET M001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	ET M001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	IN M004	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	IN M004	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	IN M004	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	3
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	IN M005	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	IN M005	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	IN M005	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	RF W029	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
LEAD/CADMIUM METAL WASTE	RF W029	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	RF W029	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	RF W041	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
LEAD/CADMIUM METAL WASTE	RF W041	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
LEAD/CADMIUM METAL WASTE	RF W041	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
LEAD/CADMIUM METAL WASTE	RF W041	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	5
		(2 x 23)			
LEAD/CADMIUM METAL WASTE	RF W041	ACIDS, MINERAL, OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	T x D	S	7
		(2 x 24)			
LEAD/CADMIUM METAL WASTE	RF W041	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	8
		(2 x 101)			
LEAD/CADMIUM METAL WASTE	RF W041	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
LEAD/CADMIUM METAL WASTE	RF W041	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	RF W041	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	RF W041	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	RL M019	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	RL M019	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	RL M019	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
LEAD/CADMIUM METAL WASTE	RL M020	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
LEAD/CADMIUM METAL WASTE	RL M020	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
LEAD/CADMIUM METAL WASTE	RL M020	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SALT WASTE	IN M001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SALT WASTE	IN M001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SALT WASTE	IN M001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SALT WASTE	IN W311	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SALT WASTE	IN W311	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SALT WASTE	IN W311	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
SALT WASTE	IN W312	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	14 00
		(10 x 23)			
SALT WASTE	IN W312	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T1	S	16 00
		(10 x 24)			
SALT WASTE	IN W312	CAUSTICS x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	17 00
		(10 x 107)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SALT WASTE	IN W312	ETHERS x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	17b
		(14 x 107)			
SALT WASTE	IN W312	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	18
		(15 x 107)			
SALT WASTE	IN W312	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	31
		(23 x 107)			
SALT WASTE	IN W312	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
		(24 x 106)			
SALT WASTE	IN W312	METALS & METAL COMPOUNDS, TOXIC x WATER REACTIVE SUBSTANCES	T1 x M	EXTREMELY	3[illegible]
		(24 x 107)			
SALT WASTE	IN W312	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	39
		(101 x 107)			
SALT WASTE	IN W314	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SALT WASTE	IN W314	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SALT WASTE	IN W314	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SALT WASTE	RF W058	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SALT WASTE	RF W058	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T1	S	16 00
		(10 x 24)			
SALT WASTE	RF W058	CAUSTICS x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	17 00
		(10 x 107)			
SALT WASTE	RF W058	ETHERS x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	17b
		(14 x 107)			
SALT WASTE	RF W058	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	18
		(15 x 107)			
SALT WASTE	RF W058	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	31
		(23 x 107)			
SALT WASTE	RF W058	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
		(24 x 106)			
SALT WASTE	RF W058	METALS & METAL COMPOUNDS, TOXIC x WATER REACTIVE SUBSTANCES	T1 x M	EXTREMELY	35
		(24 x 107)			
SALT WASTE	RF W058	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	D x M	EXTREMELY	39
		(101 x 107)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOILS	IN W263	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOILS	IN W263	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOILS	IN W263	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOILS	RL M007	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOILS	RL M007	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOILS	RL M007	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	AL W005	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
SOLIDIFIED INORGANICS	AL W005	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	AL W005	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED INORGANICS	AL W005	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	AL W005	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	AL W005	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10 10a
		(2 x 106)			
SOLIDIFIED INORGANICS	AL W005	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	AL W005	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	AL W005	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W146	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W146	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W146	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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SOLIDIFIED INORGANICS	IN W157	ACIDS, ORGANIC x ALCOHOLS & GLYCOLS	M x T	H P	11 11a
		(3 x 4)			
SOLIDIFIED INORGANICS	IN W157	ACIDS, ORGANIC x CAUSTICS	M x D	H	00
		(3 x 10)			
SOLIDIFIED INORGANICS	IN W157	ACIDS, ORGANIC x FLUORIDES, INORANIC	M x D	GT	11d
		(3 x 15)			
SOLIDIFIED INORGANICS	IN W157	ACIDS, ORGANIC x METALS & METAL COMPOUNDS, TOXIC	M x T	S	12 12aa
		(3 x 24)			
SOLIDIFIED INORGANICS	IN W157	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W157	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W157	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W157	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W157	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED INORGANICS	IN W166	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W166	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W166	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T1	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W166	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W166	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W177	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	T x D	H	00
		(1 x 10)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T x D	H	0aaa
		(1 x 14)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T x D	GT	0aaaa
		(1 x 15)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	1
		(1 x 23)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G	3
		(1 x 101)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	3b
		(1 x 106)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	
		(2 x 14)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	IN W179	ACIDS, ORGANIC x CAUSTICS	T x D	H	00
		(3 x 10)			
SOLIDIFIED INORGANICS	IN W179	ACIDS, ORGANIC x FLUORIDES, INORANIC	T x D	GT	11d
		(3 x 15)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W179	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W179	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	19
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W179	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W181	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10 10a
		(2 x 106)			
SOLIDIFIED INORGANICS	IN W181	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W181	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W181	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

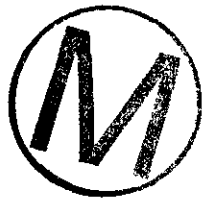
(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER
SOLIDIFIED INORGANICS	IN W181	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W181	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W188	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10
		(2 x 106)			
SOLIDIFIED INORGANICS	IN W188	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			



x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	IN W188	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W188	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W188	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	2b
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W188	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (≤1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT =toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED INORGANICS	IN W216	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10
		(2 x 106)			
SOLIDIFIED INORGANICS	IN W216	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W216	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W216	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W216	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W216	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W220	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
SOLIDIFIED INORGANICS	IN W220	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	IN W220	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	IN W220	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	IN W220	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W220	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10
		(2 x 106)			
SOLIDIFIED INORGANICS	IN W220	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W220	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W220	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W220	CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T3	H E	00
		(10 x 32)			
SOLIDIFIED INORGANICS	IN W220	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W220	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33 33a 34
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED INORGANICS	IN W221	ACIDS, ORGANIC x ALCOHOLS & GLYCOLS	M x T1	H P	11
		(3 x 4)			
SOLIDIFIED INORGANICS	IN W221	ACIDS, ORGANIC x CAUSTICS	M x D	H	00
		(3 x 10)			
SOLIDIFIED INORGANICS	IN W221	ACIDS, ORGANIC x FLUORIDES, INORANIC	M x D	GT	11d
		(3 x 15)			
SOLIDIFIED INORGANICS	IN W221	ACIDS, ORGANIC x METALS & METAL COMPOUNDS, TOXIC	M x T	S	12
		(3 x 24)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W221	CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T	H E	00
		(10 x 32)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
SOLIDIFIED INORGANICS	IN W221	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W221	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	IN W222	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
SOLIDIFIED INORGANICS	IN W222	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W222	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	IN W222	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W222	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	IN W222	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	IN W222	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33 33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	IN W228	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10
		(2 x 106)			
SOLIDIFIED INORGANICS	IN W228	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	IN W228	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	IN W228	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	IN W228	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (17 x 23)	T x D	H F	25
SOLIDIFIED INORGANICS	IN W228	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER (24 x 106)	T x D	S	33 33a
SOLIDIFIED INORGANICS	IN W332	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23)	D x D	GF H	00
SOLIDIFIED INORGANICS	IN W347	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC (10 x 23)	D x D	GF H	15 00
SOLIDIFIED INORGANICS	LA W002	CAUSTICS x KETONES (10 x 19)	D x T3	H	
SOLIDIFIED INORGANICS	LA W002	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC (10 x 24)	D x T2	S	00
SOLIDIFIED INORGANICS	LA W002	CAUSTICS x EXPLOSIVES (10 x 102)	D x T2	H E	00
SOLIDIFIED INORGANICS	LA W002	CAUSTICS x WATER REACTIVE SUBSTANCES (10 x 107)	D x T2	EXTREMELY	00
SOLIDIFIED INORGANICS	LA W002	ETHERS x OXIDIZING AGENTS, STRONG (14 x 104)	D x T2	H F	17a

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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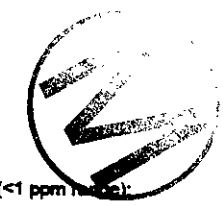
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED INORGANICS	LA W002	ETHERS x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	17b
		(14 x 107)			
SOLIDIFIED INORGANICS	LA W002	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	18
		(15 x 107)			
SOLIDIFIED INORGANICS	LA W002	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T2 x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	LA W003	CAUSTICS x KETONES	D x T3	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	LA W003	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T3	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	LA W003	CAUSTICS x EXPLOSIVES	D x T2	H E	00
		(10 x 102)			
SOLIDIFIED INORGANICS	LA W003	CAUSTICS x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	00
		(10 x 107)			
SOLIDIFIED INORGANICS	LA W003	ETHERS x OXIDIZING AGENTS, STRONG	D x T2	H F	17a
		(14 x 104)			
SOLIDIFIED INORGANICS	LA W003	ETHERS x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	17b
		(14 x 107)			



x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	LA W003	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	18
		(15 x 107)			
SOLIDIFIED INORGANICS	LA W003	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T3 x D	S	33 33a
		(24 x 106)			
SOLIDIFIED INORGANICS	LA W003	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T2	H E	36d
		(101 x 102)			
SOLIDIFIED INORGANICS	LA W003	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T2	H F G	37
		(101 x 104)			
SOLIDIFIED INORGANICS	LA W003	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	39
		(101 x 107)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T2 x D	H	0aaa
		(1 x 14)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T2 x D	GT	0aaaa
		(1 x 15)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	GF H F	1
		(1 x 23)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T2 x D	H G	3
		(1 x 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, NON-OXIDIZING x OXIDIZING AGENTS, STRONG	T2 x D	H GT	3aa
		(1 x 104)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T2 x D	H	3b
		(1 x 106)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T2 x D	H	
		(2 x 10)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING x ETHERS	T2 x D	H F	3f
		(2 x 14)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T2 x D	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T2 x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T2 x D	H	10
		(2 x 106)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, ORGANIC x CAUSTICS	T2 x D	H	00
		(3 x 10)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	LA W006	ACIDS, ORGANIC x FLUORIDES, INORANIC	T2 x D	GT	11d
		(3 x 15)			
SOLIDIFIED INORGANICS	LA W006	ACIDS, ORGANIC x OXIDIZING AGENTS, STRONG	T2 x D	H GT	12bbb
		(3 x 104)			
SOLIDIFIED INORGANICS	LA W006	ALCOHOLS & GLYCOLS x OXIDIZING AGENTS, STRONG	T2 x D	H F	12bb
		(4 x 104)			
SOLIDIFIED INORGANICS	LA W006	AMINES, ALIPHATIC & AROMATIC x OXIDIZING AGENTS, STRONG	T2 x D	H F GT	12d
		(7 x 104)			
SOLIDIFIED INORGANICS	LA W006	CAUSTICS x HALOGENATED ORGANICS	D x T2	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	LA W006	CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	D x T	GF H	00
		(10 x 21)			
SOLIDIFIED INORGANICS	LA W006	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
SOLIDIFIED INORGANICS	LA W006	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T1	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	LA W006	CAUSTICS x NITRO COMPOUNDS	D x T2	H E	00
		(10 x 27)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	LA W006	CAUSTICS x EXPLOSIVES	D x T	H E	00
		(10 x 102)			
SOLIDIFIED INORGANICS	LA W006	CAUSTICS x WATER REACTIVE SUBSTANCES	D x T1	EXTREMELY	00
		(10 x 107)			
SOLIDIFIED INORGANICS	LA W006	ETHERS x OXIDIZING AGENTS, STRONG	D x D	H F	17a
		(14 x 104)			
SOLIDIFIED INORGANICS	LA W006	ETHERS x WATER REACTIVE SUBSTANCES	D x T1	EXTREMELY	17b
		(14 x 107)			
SOLIDIFIED INORGANICS	LA W006	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	D x T1	EXTREMELY	18
		(15 x 107)			
SOLIDIFIED INORGANICS	LA W006	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	LA W006	HALOGENATED ORGANICS x OXIDIZING AGENTS, STRONG	T2 x D	H GT	28
		(17 x 104)			
SOLIDIFIED INORGANICS	LA W006	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G F	28b
		(21 x 101)			
SOLIDIFIED INORGANICS	LA W006	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x OXIDIZING AGENTS, STRONG	T x D	H F E	28c
		(21 x 104)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	LA W006	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	T x D	GF H	28d
		(21 x 106)			
SOLIDIFIED INORGANICS	LA W006	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	D x D	H F	29
		(23 x 104)			
SOLIDIFIED INORGANICS	LA W006	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	D x T1	EXTREMELY	31
		(23 x 107)			
SOLIDIFIED INORGANICS	LA W006	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	LA W006	NITRO COMPOUNDS x OXIDIZING AGENTS, STRONG	T2 x D	H E	36b
		(27 x 104)			
SOLIDIFIED INORGANICS	LA W006	HYDROCARBON, ALIPHATIC, SATURATED x OXIDIZING AGENTS, STRONG	T2 x D	H F	36c
		(29 x 104)			
SOLIDIFIED INORGANICS	LA W006	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T	H E	36d
		(101 x 102)			
SOLIDIFIED INORGANICS	LA W006	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x D	H F G	37
		(101 x 104)			
SOLIDIFIED INORGANICS	LA W006	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	D x T1	EXTREMELY	39
		(101 x 107)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
SOLIDIFIED INORGANICS	LA W006	EXPLOSIVES x OXIDIZING AGENTS, STRONG	T x D	H E	40
		(102 x 104)			
SOLIDIFIED INORGANICS	LA W006	OXIDIZING AGENTS, STRONG x WATER REACTIVE SUBSTANCES	D x T1	EXTREMELY	41
		(104 x 107)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x ALCOHOLS & GLYCOLS	M x T	H	0a
		(1 x 4)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	M x D	H	0aa 00
		(1 x 10)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	M x D	H	0aaa
		(1 x 14)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	M x D	GT	0aaaa
		(1 x 15)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x HALOGENATED ORGANICS	M x T	H GT	0b
		(1 x 17)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x KETONES	M x T	H	0bb
		(1 x 19)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	M x D	GF H F	1
		(1 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	M x T	S	2
		(1 x 24)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	M x D	H G	3
		(1 x 101)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x EXPLOSIVES	M x T	H E	3a
		(1 x 102)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x OXIDIZING AGENTS, STRONG	M x T	H GT	3aa
		(1 x 104)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	M x D	H	3
		(1 x 106)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x ACIDS, ORGANIC	M x T	G H	3c
		(2 x 3)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x ALCOHOLS & GLYCOLS	M x T	H F	3d
		(2 x 4)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x CAUSTICS	M x D	H	3e 00
		(2 x 10)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x ETHERS	M x D	H F	3f
		(2 x 14)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	M x D	GT	3g
		(2 x 15)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x HALOGENATED ORGANICS	M x T	H F GT	3h
		(2 x 17)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x KETONES	M x T	H F	3i
		(2 x 19)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	M x D	GF H F	4
		(2 x 23)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x METALS & METAL COMPOUNDS, TOXIC	M x T	S	6
		(2 x 24)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	M x D	H F GT	9
		(2 x 101)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x EXPLOSIVES	M x T	H E	9a
		(2 x 102)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	M x D	H	10 10a
		(2 x 106)			
SOLIDIFIED INORGANICS	LL W019	ACIDS, ORGANIC x CAUSTICS	T x D	H	11b 00
		(3 x 10)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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SOLIDIFIED INORGANICS	LL W019	ACIDS, ORGANIC x FLUORIDES, INORANIC	T x D	GT	11d
		(3 x 15)			
SOLIDIFIED INORGANICS	LL W019	CAUSTICS x HALOGENATED ORGANICS	D x T	H	13 00
		(10 x 17)			
SOLIDIFIED INORGANICS	LL W019	CAUSTICS x KETONES	D x T	H	13a 00
		(10 x 19)			
SOLIDIFIED INORGANICS	LL W019	CAUSTICS x METALS, OTHER ELEMENTAL & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	16a 00
		(10 x 23)			
SOLIDIFIED INORGANICS	LL W019	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	16a 00
		(10 x 24)			
SOLIDIFIED INORGANICS	LL W019	CAUSTICS x EXPLOSIVES	D x T	H E	16c 00
		(10 x 102)			
SOLIDIFIED INORGANICS	LL W019	ETHERS x OXIDIZING AGENTS, STRONG	D x T	H F	17a
		(14 x 104)			
SOLIDIFIED INORGANICS	LL W019	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	25
		(17 x 23)			
SOLIDIFIED INORGANICS	LL W019	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	D x T	H F	29
		(23 x 104)			

x=Combined with

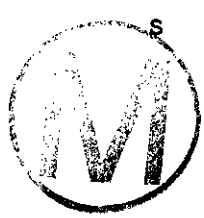
(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	LL W019	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	LL W019	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T	H E	36d
		(101 x 102)			
SOLIDIFIED INORGANICS	LL W019	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T	H F G	37
		(101 x 104)			
SOLIDIFIED INORGANICS	MD W002	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	OR W042	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	OR W042	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	OR W042	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33 33a
		(24 x 106)			
SOLIDIFIED INORGANICS	OR W046	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	OR W046	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			



x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
SOLIDIFIED INORGANICS	OR W046	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	PA W014	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	PA W015	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	PA W015	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	PA W015	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	PAW015A	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF M001	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	RF M001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF M001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T1	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED INORGANICS	RF M001	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	19
		(17 x 23)			
SOLIDIFIED INORGANICS	RF M001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T1 x D	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	RF W010	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	RF W010	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF W010	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	RF W010	CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T3	H E	00
		(10 x 32)			
SOLIDIFIED INORGANICS	RF W010	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	19
		(17 x 23)			
SOLIDIFIED INORGANICS	RF W010	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	RF W038	ACIDS, ORGANIC x CAUSTICS	T x D	H	00
		(3 x 10)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
SOLIDIFIED INORGANICS	RF W038	ACIDS, ORGANIC x FLUORIDES, INORANIC	T x D	GT	11d
		(3 x 15)			
SOLIDIFIED INORGANICS	RF W038	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	RF W038	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF W038	CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T	H E	00
		(10 x 32)			
SOLIDIFIED INORGANICS	RF W040	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	RF W040	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	RF W040	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF W040	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	RF W040	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	RF W040	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	26
		(17 x 23)			
SOLIDIFIED INORGANICS	RF W040	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	RF W059	CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	D x D	GF H	00
		(10 x 21)			
SOLIDIFIED INORGANICS	RF W059	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF W059	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	RF W059	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	D x D	H G F	28b
		(21 x 101)			
SOLIDIFIED INORGANICS	RF W059	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	D x D	GF H	28d
		(21 x 106)			
SOLIDIFIED INORGANICS	RF W059	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	RF W063	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	RF W063	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	RF W063	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33 33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	RF W065	CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	D x D	GF H	00
		(10 x 21)			
SOLIDIFIED INORGANICS	RF W065	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF W065	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	D x D	H G F	28b
		(21 x 101)			
SOLIDIFIED INORGANICS	RF W065	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	D x D	GF H	28d
		(21 x 106)			
SOLIDIFIED INORGANICS	RF W068	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	RF W068	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	RF W068	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	RF W068	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	RF W068	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
SOLIDIFIED INORGANICS	RF W068	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	19
		(17 x 23)			
SOLIDIFIED INORGANICS	RF W068	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	RF W076	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	RF W076	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	RF W076	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RF W076	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	RF W076	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED INORGANICS	RF W076	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	19
		(17 x 23)			
SOLIDIFIED INORGANICS	RF W076	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33 33a
		(24 x 106)			
SOLIDIFIED INORGANICS	RL M005	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RL M005	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	RL M005	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a 34
		(24 x 106)			
SOLIDIFIED INORGANICS	RL M032	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
SOLIDIFIED INORGANICS	RL M032	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	RL M032	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	RL M032	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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SOLIDIFIED INORGANICS	RL M032	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED INORGANICS	SR W053	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED INORGANICS	SR W053	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED INORGANICS	SR W053	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED INORGANICS	SR W053	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED INORGANICS	SR W053	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
SOLIDIFIED INORGANICS	SR W053	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	19
		(17 x 23)			
SOLIDIFIED INORGANICS	SR W053	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED ORGANICS	IN W167	CAUSTICS x HALOGENATED ORGANICS	D x D	H	00
		(10 x 17)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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SOLIDIFIED ORGANICS	IN W167	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	IN W167	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED ORGANICS	IN W167	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	H F	23
		(17 x 23)			
SOLIDIFIED ORGANICS	IN W167	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x CAUSTICS	D x D	H	00
		(2 x 10)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x ETHERS	D x D	H F	3f
		(2 x 14)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	D x D	GT	3g
		(2 x 15)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H F	4
		(2 x 23)			
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	D x D	H F GT	9
		(2 x 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
SOLIDIFIED ORGANICS	IN W174	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	D x D	H	10a
		(2 x 106)			
SOLIDIFIED ORGANICS	IN W174	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	IN W309	CAUSTICS x HALOGENATED ORGANICS	D x D	H	00
		(10 x 17)			
SOLIDIFIED ORGANICS	IN W309	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	IN W309	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
SOLIDIFIED ORGANICS	IN W309	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	H F	23
		(17 x 23)			
SOLIDIFIED ORGANICS	IN W309	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
SOLIDIFIED ORGANICS	RF W013	CAUSTICS x HALOGENATED ORGANICS	D x D	H	00
		(10 x 17)			
SOLIDIFIED ORGANICS	RF W013	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED ORGANICS	RF W013	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	H F	25
		(17 x 23)			
SOLIDIFIED ORGANICS	RF W069	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
SOLIDIFIED ORGANICS	RF W069	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED ORGANICS	RF W069	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	RF W069	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
SOLIDIFIED ORGANICS	RF W069	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	23 26
		(17 x 23)			
SOLIDIFIED ORGANICS	RL M017	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
SOLIDIFIED ORGANICS	RL M017	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
SOLIDIFIED ORGANICS	RL M017	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
SOLIDIFIED ORGANICS	RL M018	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	RL M024	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
SOLIDIFIED ORGANICS	SR W006	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	AW W018	CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	D x D	GF H	00
		(10 x 21)			
UNCATEGORIZED METAL	AW W018	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	AW W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	D x D	H G F	28b
		(21 x 101)			
UNCATEGORIZED METAL	AW W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	D x D	GF H	28d
		(21 x 106)			
UNCATEGORIZED METAL	AW W019	CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	D x D	GF H	00
		(10 x 21)			
UNCATEGORIZED METAL	AW W019	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
UNCATEGORIZED METAL	AW W019	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	D x D	H G F	28b
		(21 x 101)			
UNCATEGORIZED METAL	AW W019	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	D x D	GF H	28d
		(21 x 106)			
UNCATEGORIZED METAL	AW W021	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	AW W021	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
UNCATEGORIZED METAL	AW W021	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33
		(24 x 106)			
UNCATEGORIZED METAL	IN M003	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	IN W280	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	IN W280	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
UNCATEGORIZED METAL	IN W280	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

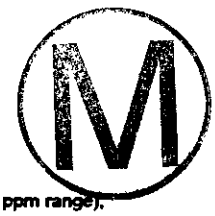
(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
UNCATEGORIZED METAL	IN W287	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	IN W287	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x M	S	00
		(10 x 24)			
UNCATEGORIZED METAL	IN W287	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	M x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	IN W294	AMINES, ALIPHATIC & AROMATIC x HALOGENATED ORGANICS	D x D	H G	12b
		(7 x 17)			
UNCATEGORIZED METAL	IN W294	AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	D x D	S	12c
		(7 x 24)			
UNCATEGORIZED METAL	IN W294	CAUSTICS x HALOGENATED ORGANICS	D x D	H	00
		(10 x 17)			
UNCATEGORIZED METAL	IN W294	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	IN W294	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
UNCATEGORIZED METAL	IN W294	CAUSTICS x NITRO COMPOUNDS	D x D	H E	00
		(10 x 27)			



x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c)
UNCATEGORIZED METAL	IN W294	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	H F	24
		(17 x 23)			
UNCATEGORIZED METAL	IN W294	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	IN W296	AMINES, ALIPHATIC & AROMATIC x METALS & METAL COMPOUNDS, TOXIC	T x D	S	12c
		(7 x 24)			
UNCATEGORIZED METAL	IN W296	CAUSTICS x ESTERS	D x T	H	00
		(10 x 13)			
UNCATEGORIZED METAL	IN W296	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
UNCATEGORIZED METAL	IN W296	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
UNCATEGORIZED METAL	IN W296	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	IN W296	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
UNCATEGORIZED METAL	IN W296	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
UNCATEGORIZED METAL	IN W296	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
UNCATEGORIZED METAL	IN W296	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	IN W298	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
UNCATEGORIZED METAL	IN W298	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	IN W298	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
UNCATEGORIZED METAL	IN W298	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	24
		(17 x 23)			
UNCATEGORIZED METAL	IN W298	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	IN W300	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
UNCATEGORIZED METAL	IN W300	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
UNCATEGORIZED METAL	IN W300	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
UNCATEGORIZED METAL	IN W300	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	24
		(17 x 23)			
UNCATEGORIZED METAL	IN W300	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	IN W322	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	INW260A	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	LA W001	ALDEHYDES x CAUSTICS	T2 x D	H	00
		(5 x 10)			
UNCATEGORIZED METAL	LA W001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	LA W001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
UNCATEGORIZED METAL	LA W001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T2 x D	H	0aaa
		(1 x 14)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T2 x D	GT	0aaaa
		(1 x 15)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	GF H F	1
		(1 x 23)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T2 x D	H G	3
		(1 x 101)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T2 x D	H	3b
		(1 x 106)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, OXIDIZING x ETHERS	T2 x D	H F	3f
		(2 x 14)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T2 x D	GT	3g
		(2 x 15)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	GF H F	5
		(2 x 23)			
UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T2 x D	H F GT	8
		(2 x 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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UNCATEGORIZED METAL	LA W005	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T2 x D	H	10a
		(2 x 106)			
UNCATEGORIZED METAL	LA W005	ACIDS, ORGANIC x CAUSTICS	T2 x D	H	00
		(3 x 10)			
UNCATEGORIZED METAL	LA W005	ACIDS, ORGANIC x FLUORIDES, INORANIC	T2 x D	GT	11d
		(3 x 15)			
UNCATEGORIZED METAL	LA-W005	CAUSTICS x HALOGENATED ORGANICS	D x T2	H	00
		(10 x 17)			
UNCATEGORIZED METAL	LA W005	CAUSTICS x KETONES	D x T2	H	00
		(10 x 19)			
UNCATEGORIZED METAL	LA W005	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15
		(10 x 23)			
UNCATEGORIZED METAL	LA W005	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
UNCATEGORIZED METAL	LA W005	CAUSTICS x ORHANOPHOSPHATES, PHOSPHOTHIOATES & PHOSPHODITHIOATES	D x T2	H E	00
		(10 x 32)			
UNCATEGORIZED METAL	LA W005	CAUSTICS x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	00
		(10 x 107)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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UNCATEGORIZED METAL	LA W005	ETHERS x OXIDIZING AGENTS, STRONG	D x T2	H F	17a
		(14 x 104)			
UNCATEGORIZED METAL	LA W005	ETHERS x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	17b
		(14 x 107)			
UNCATEGORIZED METAL	LA W005	FLUORIDES, INORANIC x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	18
		(15 x 107)			
UNCATEGORIZED METAL	LA W005	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T2 x D	H F	24
		(17 x 23)			
UNCATEGORIZED METAL	LA W005	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	D x T2	H F	30
		(23 x 104)			
UNCATEGORIZED METAL	LA W005	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	32
		(23 x 107)			
UNCATEGORIZED METAL	LA W005	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	LA W005	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T2	H F G	38
		(101 x 104)			
UNCATEGORIZED METAL	LA W005	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x WATER REACTIVE SUBSTANCES	D x T2	EXTREMELY	39
		(101 x 107)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
UNCATEGORIZED METAL	LA W009	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
UNCATEGORIZED METAL	LA W009	CAUSTICS x KETONES	D x T	H	00
		(10 x 19)			
UNCATEGORIZED METAL	LA W009	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	LA W009	CAUSTICS x NITRO COMPOUNDS	D x T	H E	00
		(10 x 27)			
UNCATEGORIZED METAL	LA W009	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	20
		(17 x 23)			
UNCATEGORIZED METAL	LA WR01	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	LA WR05	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x CAUSTICS	T x D	H	00
		(1 x 10)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x ETHERS	T x D	H	0aaaa
		(1 x 14)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIC CODE NUMBER(c
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x FLUORIDES, INORANIC	T x D	GT	0aaa
		(1 x 15)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	1
		(1 x 23)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G	3
		(1 x 101)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, NON-OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	3b
		(1 x 106)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING x CAUSTICS	T x D	H	00
		(2 x 10)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING x ETHERS	T x D	H F	3f
		(2 x 14)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING x FLUORIDES, INORANIC	T x D	GT	3g
		(2 x 15)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	GF H F	5
		(2 x 23)			
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H F GT	8
		(2 x 101)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(c
UNCATEGORIZED METAL	LL W018	ACIDS, MINERAL, OXIDIZING x WATER & MIXTURES CONTAINING WATER	T x D	H	10a
		(2 x 106)			
UNCATEGORIZED METAL	LL W018	ACIDS, ORGANIC x CAUSTICS	T x D	H	00
		(3 x 10)			
UNCATEGORIZED METAL	LL W018	ACIDS, ORGANIC x FLUORIDES, INORANIC	T x D	GT	11d
		(3 x 15)			
UNCATEGORIZED METAL	LL W018	CAUSTICS x HALOGENATED ORGANICS	D x T	H	00
		(10 x 17)			
UNCATEGORIZED METAL	LL W018	CAUSTICS x KETONES	D x T	H	
		(10 x 19)			
UNCATEGORIZED METAL	LL W018	CAUSTICS x METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS	D x T	GF H	00
		(10 x 21)			
UNCATEGORIZED METAL	LL W018	CAUSTICS x METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES	D x T	GF H	00
		(10 x 22)			
UNCATEGORIZED METAL	LL W018	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	15 00
		(10 x 23)			
UNCATEGORIZED METAL	LL W018	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATI CODE NUMBER(
UNCATEGORIZED METAL	LL W018	CAUSTICS x EXPLOSIVES	D x T	H E	00
		(10 x 102)			
UNCATEGORIZED METAL	LL W018	ETHERS x OXIDIZING AGENTS, STRONG	D x T	H F	17a
		(14 x 104)			
UNCATEGORIZED METAL	LL W018	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T x D	H F	22
		(17 x 23)			
UNCATEGORIZED METAL	LL W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x COMBUSTIBLE & FLAMMABLE MATERIALS, MISC	T x D	H G F	28b
		(21 x 101)			
UNCATEGORIZED METAL	LL W018	METALS, ALKALI & ALKALINE EARTH, ELEMENTAL & ALLOYS x WATER & MIXTURES CONTAINING WATER	T x D	GF H	28d
		(21 x 106)			
UNCATEGORIZED METAL	LL W018	METALS OTHER ELEMENTAL & ALLOYS IN THE FORM OF POWDERS, VAPORS OR SPONGES x WATER & MIXTURES CONTAINING WATER	T x D	GF H	28e
		(22 x 106)			
UNCATEGORIZED METAL	LL W018	METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC x OXIDIZING AGENTS, STRONG	D x T	H F	30
		(23 x 104)			
UNCATEGORIZED METAL	LL W018	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	LL W018	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x EXPLOSIVES	D x T	H E	36d
		(101 x 102)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

(c) See text

TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
UNCATEGORIZED METAL	LL W018	COMBUSTIBLE & FLAMMABLE MATERIALS, MISC x OXIDIZING AGENTS, STRONG	D x T	H F G	38
		(101 x 104)			
UNCATEGORIZED METAL	RF W011	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
UNCATEGORIZED METAL	RF W011	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	RF W011	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			
UNCATEGORIZED METAL	RF W011	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	21
		(17 x 23)			
UNCATEGORIZED METAL	RF W011	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	RF W037	CAUSTICS x HALOGENATED ORGANICS	D x T1	H	00
		(10 x 17)			
UNCATEGORIZED METAL	RF W037	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	RF W037	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x D	S	00
		(10 x 24)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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TABLE C1-1
SUMMARY OF POTENTIAL INCOMPATIBILITIES FOR WASTE FORMS AND CONTAINER

WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANAT CODE NUMBER(
UNCATEGORIZED METAL	RF W037	HALOGENATED ORGANICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	T1 x D	H F	24
		(17 x 23)			
UNCATEGORIZED METAL	RF W037	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	D x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	RL M001	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	RL M001	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
UNCATEGORIZED METAL	RL M001	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	RL M002	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	RL M002	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
UNCATEGORIZED METAL	RL M002	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	RL M003	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

(b)Reaction code: H=heat generation; S= solubilization of toxic substances; F=fire; GF= flammable gas generation; G= nonflammable gas generation GT=toxic gas generation; P=violent polymerization; E=explosive

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WASTE MATRIX CODE GROUP	WASTE STREAM UNIQUE ID	POTENTIAL CHEMICAL COMPATIBILITY REACTION	CONCENTRATION OF REACTANTS(a)	REACTION CODE(b)	EXPLANATIO CODE NUMBER(c)
UNCATEGORIZED METAL	RL M008	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	RL M008	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
UNCATEGORIZED METAL	RL M008	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			
UNCATEGORIZED METAL	RL M021	CAUSTICS x METALS, OTHER ELEMENTAL, & ALLOY, AS SHEETS, RODS, MOLDINGS, DROPS, ETC	D x D	GF H	00
		(10 x 23)			
UNCATEGORIZED METAL	RL M021	CAUSTICS x METALS & METAL COMPOUNDS, TOXIC	D x T	S	00
		(10 x 24)			
UNCATEGORIZED METAL	RL M021	METALS & METAL COMPOUNDS, TOXIC x WATER & MIXTURES CONTAINING WATER	T x D	S	33a
		(24 x 106)			

x=Combined with

(a) Concentration of reactants: T=Trace (<1% by wt.); T1=Trace (<0.1% by wt.); T2=Trace (low ppm range); T3=Trace (<1 ppm range); M=Minor (1-10% by wt.); D=Dominant (>10% by wt.)

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(c) See text