

Material Name: HAZARDOUS WASTE DERIVED FUEL ID: 82870

* * * Section 1 - Chemical Product and Company Identification * * *

Product Code: Not applicable

Product Use: Alternate fuel in the cement manufacturing process. This product is a RCRA (US EPA Resource

Conservation and Recovery Act) hazardous waste and is subject to the RCRA manifesting requirements.

If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Synonyms: HWDF; Synthetic Fuels; Fuels Blends; Waste Solvents.

Safety-Kleen Systems, Inc. Phone: 1-800-669-5740

2600 North Central Expressway

Suite 400

Richardson, TX 75080 Emergency # 1-800-468-1760

www.safety-kleen.com

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PREPARED BY: Product MSDS Coordinator APPROVED BY: MSDS Task Force

* * * Section 2 - Hazardous Identification * * *

EMERGENCY OVERVIEW

Appearance

Dark brown to black liquid with strong organic solvent odor.

Signal Word

DANGER!

Physical Hazards

Extremely flammable liquid and vapor. Vapor may cause flash fire.

Health Hazards

May be harmful if inhaled.

May be harmful or fatal if swallowed.

May be harmful if absorbed through the skin.

May irritate the respiratory tract (nose, throat, and lungs), eyes and skin.

May contain material which may cause cancer. Risk of cancer depends on duration and level of exposure.

Contains material which can cause organ damage and central nervous system effects.

POTENTIAL HEALTH EFFECTS

Inhalation (Breathing)

High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

Eyes

May be severely irritating to the eyes. May cause tearing, redness, swelling, burns, and eye damage.

Skin

May cause irritation. May be absorbed through the skin and cause harm as noted under **INHALATION** (BREATHING).

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Ingestion (Swallowing)

May be harmful or fatal if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION** (**BREATHING**). Aspiration hazard: Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), cardiovascular, liver, kidney, central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

Chronic

Prolonged or repeated inhalation may cause toxic effects as noted under **INHALATION** (**BREATHING**). Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Prolonged or repeated inhalation may cause brain, liver, kidney, heart, central nervous system or other organ damage. Contains material which may cause birth defects.

Cancer Information

This product contains materials which can cause cancer. Risk of cancer depends on duration and level of exposure. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

Environmental Hazards

Product may be toxic to fish, plants, wildlife and/or domestic animals.; Product may be toxic to fish, plants, wildlife and domestic animals See **SECTION 12: ECOLOGICAL INFORMATION**.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS#	Component	Percent
142-82-5	Heptane (n-)	0-60*
109-66-0	Pentane	0-60*
110-54-3	Hexane	0-60*
108-88-3	Toluene	0-60*
110-82-7	Cyclohexane	0-60*
111-65-9	Octanes	0-60*
111-84-2	Nonane	0-60*
100-41-4	Ethyl benzene	0-60*
124-18-5	Decane	0-60*
108-95-2	Phenol	0-60*
1330-20-7	Xylenes (o-, m-, p- isomers)	0-60*
112-40-3	Dodecane	0-60*
71-43-2	Benzene	0-60*
100-42-5	Styrene	0-60*
91-20-3	Naphthalene	0-60*
110-43-0	Methyl n-amyl ketone	0-40*
78-93-3	Methyl ethyl ketone	0-40*
107-21-1	Ethylene glycol	0-40*
108-94-1	Cyclohexanone	0-40*
108-93-0	Cyclohexanol	0-40*
67-63-0	Isopropyl alcohol	0-40*
108-10-1	Methylisobutyl ketone	0-40*
71-36-3	n-Butyl alcohol	0-40*
71-23-8	n-Propyl alcohol	0-40*
67-64-1	Acetone	0-40*
57-55-6	1,2-Propylene glycol	0-40*
64-17-5	Ethyl alcohol	0-40*
67-56-1	Methyl alcohol	0-40*

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7732-18-5	Water	0-30*
Not Available	Solids	0-25*
123-86-4	n-Butyl acetate	0-15*
109-60-4	n-Propyl acetate	0-15*
109-86-4	2-Methoxyethanol	0-15*
110-49-6	2-Methoxyethyl acetate	0-15*
110-80-5	2-Ethoxyethanol	0-15*
108-21-4	Isopropyl acetate	0-15*
108-05-4	Vinyl acetate	0-15*
107-98-2	Propylene glycol monomethyl ether	0-15*
141-78-6	Ethylacetate	0-15*
79-20-9	Methyl acetate	0-15*
112-07-2	Ethylene glycol, monobutyl ether acetate	0-15*
79-01-6	Trichloroethene	0-5*
71-55-6	1,1,1-Trichloroethane	0-5*
127-18-4	Tetrachloroethylene	0-5*
75-09-2	Methylene chloride	0-5*

^{*} Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

This product may contain other components than listed. Typical components are listed. Composition will vary.

* * * Section 4 - First Aid Measures * * *

Inhalation (Breathing)

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.

Eyes

If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.

Skin

Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. Wash contaminated clothing before reuse.

Ingestion (Swallowing)

Do NOT induce vomiting. Immediately get medical attention. Call 1-800-468-1760 for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

Notes to Physicians

Treat symptomatically and supportively. Increased sensitivity of the heart to Adrenaline (epinephrine) may be caused by overexposure to product. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

* * * Section 5 - Fire Fighting Measures * * *

Hazardous Combustion Products

Decomposition and combustion materials may be toxic., Burning may produce phosgene, chlorides, chloroacetylenes, formaldehyde, peracetic acid, carbon monoxide and unidentified organic compounds.

Conditions of Flammability

Heat, sparks, or flame.

Extinguishing Media

Carbon dioxide, foam, dry chemical, or water spray.

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Fire Fighting Equipment/Instructions

Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Fire and Explosion Hazards

Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire or explosion hazard. Heated containers may rupture, explode, or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact. Product may be sensitive to static discharge, which could result in fire or explosion.

* * * Section 6 - Accidental Release Measures * * *

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION.**

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring large quantities of product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

Shipping and Storing

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition; containers may explode and cause injury or death. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

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* * * Section 8 - Exposure Controls / Personal Protection * * *

Exposure Guidelines

Component Exposure Limits

Ethyl benzene (100-41-4)

ACGIH: 20 ppm TWA

OSHA Final: 100 ppm TWA; 435 mg/m3 TWA
OSHA Vacated: 100 ppm TWA: 435 mg/m3 TWA

SHA Vacated: 100 ppm TWA; 435 mg/m3 TWA 125 ppm STEL; 545 mg/m3 STEL

NIOSH: 100 ppm TWA; 435 mg/m3 TWA

125 ppm STEL; 545 mg/m3 STEL

Styrene (100-42-5)

ACGIH: 20 ppm TWA

40 ppm STEL

OSHA Final: 100 ppm TWA

200 ppm Ceiling

OSHA Vacated: 50 ppm TWA; 215 mg/m3 TWA

100 ppm STEL; 425 mg/m3 STEL

NIOSH: 50 ppm TWA; 215 mg/m3 TWA

100 ppm STEL; 425 mg/m3 STEL

Toluene (108-88-3)

ACGIH: 20 ppm TWA

OSHA Final: 200 ppm TWA

300 ppm Ceiling

OSHA Vacated: 100 ppm TWA; 375 mg/m3 TWA

150 ppm STEL; 560 mg/m3 STEL

NIOSH: 100 ppm TWA; 375 mg/m3 TWA

150 ppm STEL; 560 mg/m3 STEL

Phenol (108-95-2)

ACGIH: 5 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 5 ppm TWA; 19 mg/m3 TWA prevent or reduce skin absorption

5 ppm TWA; 19 mg/m3 TWA

Prevent or reduce skin absorption

NIOSH: 5 ppm TWA; 19 mg/m3 TWA

15.6 ppm Ceiling (15 min); 60 mg/m3 Ceiling (15 min)

Potential for dermal absorption

Pentane (109-66-0)

OSHA Vacated:

ACGIH: 600 ppm TWA

OSHA Final: 1000 ppm TWA; 2950 mg/m3 TWA
OSHA Vacated: 600 ppm TWA; 1800 mg/m3 TWA

750 ppm STEL; 2250 mg/m3 STEL

NIOSH: 120 ppm TWA; 350 mg/m3 TWA

610 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)

Hexane (110-54-3)

ACGIH: 50 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 500 ppm TWA; 1800 mg/m3 TWA
OSHA Vacated: 50 ppm TWA; 180 mg/m3 TWA

NIOSH: 50 ppm TWA; 180 mg/m3 TWA

Cyclohexane (110-82-7)

ACGIH: 100 ppm TWA

OSHA Final: 300 ppm TWA; 1050 mg/m3 TWA
OSHA Vacated: 300 ppm TWA; 1050 mg/m3 TWA

NIOSH: 300 ppm TWA; 1050 mg/m3 TWA

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Octanes (111-65-9)

ACGIH: 300 ppm TWA

OSHA Final: 500 ppm TWA; 2350 mg/m3 TWA
OSHA Vacated: 300 ppm TWA; 1450 mg/m3 TWA

375 ppm STEL; 1800 mg/m3 STEL 75 ppm TWA; 350 mg/m3 TWA

NIOSH: 75 ppm TWA; 350 mg/m3 TWA

385 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)

Nonane (111-84-2)

ACGIH: 200 ppm TWA

OSHA Vacated: 200 ppm TWA; 1050 mg/m3 TWA
NIOSH: 200 ppm TWA; 1050 mg/m3 TWA

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA

150 ppm STEL

OSHA Final: 100 ppm TWA; 435 mg/m3 TWA
OSHA Vacated: 100 ppm TWA; 435 mg/m3 TWA

150 ppm STEL; 655 mg/m3 STEL

Heptane (n-) (142-82-5)

ACGIH: 400 ppm TWA

500 ppm STEL

OSHA Final: 500 ppm TWA; 2000 mg/m3 TWA
OSHA Vacated: 400 ppm TWA; 1600 mg/m3 TWA

500 ppm STEL; 2000 mg/m3 STEL
NIOSH: 85 ppm TWA; 350 mg/m3 TWA

440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)

Benzene (71-43-2)

ACGIH: 0.5 ppm TWA

2.5 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 5 ppm STEL (See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA

10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR

1910.1028); 1 ppm TWA

5 ppm STEL (see 29 CFR 1910.1028)

25 ppm Ceiling

OSHA Vacated: 10 ppm TWA (unless specified in 1910.1028)

50 ppm STEL (unless specified in 1910.1028, 10 min)

25 ppm Ceiling (unless specified in 1910.1028)

NIOSH: 0.1 ppm TWA

1 ppm STEL

Naphthalene (91-20-3)

ACGIH: 10 ppm TWA

15 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 10 ppm TWA; 50 mg/m3 TWA
OSHA Vacated: 10 ppm TWA; 50 mg/m3 TWA

15 ppm STEL; 75 mg/m3 STEL

NIOSH: 10 ppm TWA; 50 mg/m3 TWA

15 ppm STEL; 75 mg/m3 STEL

Cyclohexanol (108-93-0)

ACGIH: 50 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 50 ppm TWA; 200 mg/m3 TWA

OSHA Vacated: 50 ppm TWA; 200 mg/m3 TWA

Prevent or reduce skin absorption

NIOSH: 50 ppm TWA; 200 mg/m3 TWA

Potential for dermal absorption

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Cyclohexanone (108-94-1)

ACGIH: 20 ppm TWA

50 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 50 ppm TWA; 200 mg/m3 TWA
OSHA Vacated: 25 ppm TWA; 100 mg/m3 TWA

Prevent or reduce skin absorption 25 ppm TWA; 100 mg/m3 TWA

Potential for dermal absorption

Methylisobutyl ketone (108-10-1)

NIOSH:

ACGIH: 20 ppm TWA

75 ppm STEL

OSHA Final: 100 ppm TWA; 410 mg/m3 TWA
OSHA Vacated: 50 ppm TWA; 205 mg/m3 TWA
75 ppm STEL; 300 mg/m3 STEL

NIOSH: 50 ppm TWA; 205 mg/m3 TWA

75 ppm STEL; 300 mg/m3 STEL

Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm STEL

OSHA Final: 1000 ppm TWA; 1900 mg/m3 TWA
OSHA Vacated: 1000 ppm TWA; 1900 mg/m3 TWA

NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Methyl alcohol (67-56-1)

ACGIH: 200 ppm TWA

250 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 200 ppm TWA; 260 mg/m3 TWA
OSHA Vacated: 200 ppm TWA; 260 mg/m3 TWA

250 ppm STEL; 325 mg/m3 STEL Prevent or reduce skin absorption

NIOSH: 200 ppm TWA; 260 mg/m3 TWA

250 ppm STEL; 325 mg/m3 STEL Potential for dermal absorption

Isopropyl alcohol (67-63-0)

ACGIH: 200 ppm TWA

400 ppm STEL

OSHA Final: 400 ppm TWA; 980 mg/m3 TWA
OSHA Vacated: 400 ppm TWA; 980 mg/m3 TWA

500 ppm STEL; 1225 mg/m3 STEL 400 ppm TWA; 980 mg/m3 TWA

500 ppm STEL; 1225 mg/m3 STEL

Acetone (67-64-1)

ACGIH: 500 ppm TWA

NIOSH:

750 ppm STEL

OSHA Final: 1000 ppm TWA; 2400 mg/m3 TWA
OSHA Vacated: 750 ppm TWA; 1800 mg/m3 TWA

2400 mg/m3 STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is

in effect for all other sectors); 1000 ppm STEL

NIOSH: 250 ppm TWA; 590 mg/m3 TWA

n-Propyl alcohol (71-23-8)

ACGIH: 100 ppm TWA

OSHA Final: 200 ppm TWA; 500 mg/m3 TWA
OSHA Vacated: 200 ppm TWA; 500 mg/m3 TWA

250 ppm STEL; 625 mg/m3 STEL

NIOSH: 200 ppm TWA; 500 mg/m3 TWA

250 ppm STEL; 625 mg/m3 STEL Potential for dermal absorption

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n-Butyl alcohol (71-36-3)

ACGIH: 20 ppm TWA

OSHA Final: 100 ppm TWA; 300 mg/m3 TWA 50 ppm Ceiling; 150 mg/m3 Ceiling OSHA Vacated:

Prevent or reduce skin absorption

50 ppm Ceiling; 150 mg/m3 Ceiling NIOSH:

Potential for dermal absorption

Ethylene glycol (107-21-1)

ACGIH: 100 mg/m3 Ceiling (aerosol only)

50 ppm Ceiling; 125 mg/m3 Ceiling OSHA Vacated:

Methyl ethyl ketone (78-93-3)

ACGIH: 200 ppm TWA

300 ppm STEL

OSHA Final: 200 ppm TWA; 590 mg/m3 TWA 200 ppm TWA; 590 mg/m3 TWA OSHA Vacated:

300 ppm STEL; 885 mg/m3 STEL

200 ppm TWA; 590 mg/m3 TWA NIOSH:

300 ppm STEL; 885 mg/m3 STEL

Methyl n-amyl ketone (110-43-0)

ACGIH: 50 ppm TWA

OSHA Final: 100 ppm TWA; 465 mg/m3 TWA OSHA Vacated: 100 ppm TWA; 465 mg/m3 TWA

NIOSH: 100 ppm TWA; 465 mg/m3 TWA

1,1,1-Trichloroethane (71-55-6)

ACGIH: 350 ppm TWA

450 ppm STEL

350 ppm TWA; 1900 mg/m3 TWA OSHA Final: 350 ppm TWA; 1900 mg/m3 TWA OSHA Vacated:

450 ppm STEL; 2450 mg/m3 STEL

NIOSH: 350 ppm Ceiling (15 min); 1900 mg/m3 Ceiling (15 min)

Trichloroethene (79-01-6)

ACGIH: 10 ppm TWA

25 ppm STEL

OSHA Final: 100 ppm TWA

200 ppm Ceiling

OSHA Vacated: 50 ppm TWA; 270 mg/m3 TWA

200 ppm STEL; 1080 mg/m3 STEL

Methylene chloride (75-09-2)

ACGIH: 50 ppm TWA

125 ppm STEL (See 29 CFR 1910.1052, 15 min); 12.5 ppm Action Level (See 29 CFR OSHA Final:

1910.1052); 25 ppm TWA (See 29 CFR 1910.1052)

25 ppm TWA

125 ppm STEL (see 29 CFR 1910.1052)

500 ppm TWA OSHA Vacated:

2000 ppm STEL (5 min in any 3 h)

1000 ppm Ceiling

Tetrachloroethylene (127-18-4)

ACGIH: 25 ppm TWA

100 ppm STEL

OSHA Final: 100 ppm TWA

200 ppm Ceiling

OSHA Vacated: 25 ppm TWA; 170 mg/m3 TWA

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n-Butyl acetate (123-86-4)

ACGIH: 150 ppm TWA

200 ppm STEL

OSHA Final: 150 ppm TWA; 710 mg/m3 TWA

OSHA Vacated: 150 ppm TWA; 710 mg/m3 TWA

200 ppm STEL; 950 mg/m3 STEL

NIOSH: 150 ppm TWA; 710 mg/m3 TWA

200 ppm STEL; 950 mg/m3 STEL

n-Propyl acetate (109-60-4)

ACGIH: 200 ppm TWA

250 ppm STEL

OSHA Final: 200 ppm TWA; 840 mg/m3 TWA

OSHA Vacated: 200 ppm TWA; 840 mg/m3 TWA

250 ppm STEL; 1050 mg/m3 STEL

NIOSH: 200 ppm TWA; 840 mg/m3 TWA

250 ppm STEL; 1050 mg/m3 STEL

Ethylacetate (141-78-6)

ACGIH: 400 ppm TWA

OSHA Final: 400 ppm TWA; 1400 mg/m3 TWA
OSHA Vacated: 400 ppm TWA; 1400 mg/m3 TWA

NIOSH: 400 ppm TWA; 1400 mg/m3 TWA

Propylene glycol monomethyl ether (107-98-2)

ACGIH: 50 ppm TWA

100 ppm STEL

OSHA Vacated: 100 ppm TWA; 360 mg/m3 TWA

150 ppm STEL; 540 mg/m3 STEL

NIOSH: 100 ppm TWA; 360 mg/m3 TWA

150 ppm STEL; 540 mg/m3 STEL

2-Methoxyethanol (109-86-4)

ACGIH: 0.1 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 25 ppm TWA; 80 mg/m3 TWA

prevent or reduce skin absorption

OSHA Vacated: 25 ppm TWA; 80 mg/m3 TWA

Prevent or reduce skin absorption

NIOSH: 0.1 ppm TWA; 0.3 mg/m3 TWA

Potential for dermal absorption

Ethylene glycol, monobutyl ether acetate (112-07-2)

ACGIH: 20 ppm TWA

NIOSH: 5 ppm TWA; 33 mg/m3 TWA

Isopropyl acetate (108-21-4)

ACGIH: 100 ppm TWA

200 ppm STEL

OSHA Final: 250 ppm TWA; 950 mg/m3 TWA
OSHA Vacated: 250 ppm TWA; 950 mg/m3 TWA

310 ppm STEL; 1185 mg/m3 STEL

2-Methoxyethyl acetate (110-49-6)

ACGIH: 0.1 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 25 ppm TWA; 120 mg/m3 TWA

prevent or reduce skin absorption

OSHA Vacated: 25 ppm TWA; 120 mg/m3 TWA

Prevent or reduce skin absorption

NIOSH: 0.1 ppm TWA; 0.5 mg/m3 TWA

Potential for dermal absorption

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Methyl acetate (79-20-9)

ACGIH: 200 ppm TWA

250 ppm STEL

OSHA Final: 200 ppm TWA; 610 mg/m3 TWA
OSHA Vacated: 200 ppm TWA: 610 mg/m3 TWA

DSHA Vacated: 200 ppm TWA; 610 mg/m3 TWA 250 ppm STEL; 760 mg/m3 STEL

NIOSH: 200 ppm TWA; 610 mg/m3 TWA

250 ppm STEL; 760 mg/m3 STEL

Vinyl acetate (108-05-4)

ACGIH: 10 ppm TWA

15 ppm STEL

OSHA Vacated: 10 ppm TWA; 30 mg/m3 TWA

20 ppm STEL; 60 mg/m3 STEL

NIOSH: 4 ppm Ceiling (15 min); 15 mg/m3 Ceiling (15 min)

2-Ethoxyethanol (110-80-5)

ACGIH: 5 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 200 ppm TWA; 740 mg/m3 TWA

prevent or reduce skin absorption

OSHA Vacated: 200 ppm TWA; 740 mg/m3 TWA

Prevent or reduce skin absorption

NIOSH: 0.5 ppm TWA; 1.8 mg/m3 TWA

Potential for dermal absorption

Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

Personal Protective Equipment: Respiratory

Use NIOSH air-certified, air-supplied respirators (self-contained breathing apparatus or air-line) respiratory protective equipment when concentration of components may exceed applicable exposure limits. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection and guidance.

Personal Protective Equipment: Eyes/Face

Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.

Personal Protective Equipment: Skin

Where skin contact is likely, wear impervious gloves. Use of natural rubber (latex) or equivalent gloves is not recommended.

When product is heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

Personal Protective Equipment: Personal Hygiene

Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, and/or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with this product.

Other Personal Protective Equipment

Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped with clean water, in the immediate work area.

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* * * Section 9 - Physical & Chemical Properties * * *

Appearance/Odor: Dark brown to black liquid, pH: 6 to 10 (Typical)

strong solvent odor

Boiling Point: >100°F (>38°C) **Melting Point:** Not available.

Solubility (H2O): Slight. Specific Gravity: 0.85 to 1.2 (water = 1)

Density: 7.1 to 10 LB/US gal (850 to **Octanol/H2O Coeff.:** Not available.

1200 g/L)

Evaporation Rate: Not available. Molecular Weight: Not available.

Odor Threshold: Not available. Auto Ignition Temperature: 800°F (427°C)(Based on similar

product)

LFL: 1 VOL% (based on similar Flash Point: <70°F (21°C) Tag Closed Cup

product)

UFL: 13 VOL% (based on similar **Vapor Density:** 2 to 4 (air = 1)

product)

Vapor Pressure: 60 to 100 mm Hg at 68°F

(20°C)

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Stability

Stable under normal temperatures and pressures.

Incompatibility

Avoid acids, alkalies, oxidizing agents, reducing agents, reactive halogens, or reactive metals.

Reactivity

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Hazardous Decomposition Products

None under normal temperatures and pressures., See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS**.

Conditions To Avoid

Avoid heat, sparks, or flame.

* * * Section 11 - Toxicological Information * * *

Toxicity Data

Component Analysis - LD50/LC50

Ethyl benzene (100-41-4)

Inhalation LC50 Rat 17.2 mg/L 4 h; Oral LD50 Rat 3500 mg/kg; Dermal LD50 Rabbit 15354 mg/kg

Styrene (100-42-5)

Inhalation LC50 Rat 11.8 mg/L 4 h; Oral LD50 Rat 1000 mg/kg

Phenol (108-95-2)

Dermal LD50 Rabbit 630 mg/kg

Pentane (109-66-0)

Inhalation LC50 Rat 364 g/m3 4 h; Dermal LD50 Rabbit 3000 mg/kg

Hexane (110-54-3)

Inhalation LC50 Rat 48000 ppm 4 h; Dermal LD50 Rabbit 3000 mg/kg

Cyclohexane (110-82-7)

Inhalation LC50 Rat 13.9 mg/L 4 h; Dermal LD50 Rabbit >2000 mg/kg; Oral LD50 Rat >5000 mg/kg

Octanes (111-65-9)

Inhalation LC50 Rat 118 g/m3 4 h

Nonane (111-84-2)

Inhalation LC50 Rat 3200 ppm 4 h

Dodecane (112-40-3)

Inhalation LC50 Rat >142 ppm 8 h

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Material Name: HAZARDOUS WASTE DERIVED FUEL

Decane (124-18-5)

Inhalation LC50 Rat >1369 ppm 8 h; Dermal LD50 Rat >2000 mg/kg; Oral LD50 Rat >5000 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)

Inhalation LC50 Rat 47635 mg/L 4 h; Oral LD50 Rat 4300 mg/kg

Heptane (n-) (142-82-5)

Inhalation LC50 Rat 103 g/m3 4 h; Oral LD50 Mouse 5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

Benzene (71-43-2)

Inhalation LC50 Rat 13050 - 14380 ppm 4 h

Naphthalene (91-20-3)

Dermal LD50 Rabbit >20 g/kg; Inhalation LC50 Rat >340 mg/m3 1 h

Cyclohexanol (108-93-0)

Inhalation LC50 Rat >3.6 mg/L 4 h

Cyclohexanone (108-94-1)

Inhalation LC50 Rat 8000 ppm 4 h; Dermal LD50 Rabbit 948 mg/kg; Oral LD50 Rat 800 mg/kg

Methylisobutyl ketone (108-10-1)

Inhalation LC50 Rat 8.2 mg/L 4 h; Dermal LD50 Rabbit >16000 mg/kg; Oral LD50 Rat 2080 mg/kg

1,2-Propylene glycol (57-55-6)

Dermal LD50 Rabbit 20800 mg/kg; Oral LD50 Rat 20000 mg/kg

Ethyl alcohol (64-17-5)

Inhalation LC50 Rat 124.7 mg/L 4 h

Methyl alcohol (67-56-1)

Oral LD50 Rat 5628 mg/kg; Inhalation LC50 Rat 83.2 mg/L 4 h

Isopropyl alcohol (67-63-0)

Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rabbit 12800 mg/kg; Inhalation LC50 Rat 16000 ppm 8 h

Acetone (67-64-1)

Inhalation LC50 Rat 50100 mg/m3 8 h

n-Propyl alcohol (71-23-8)

Oral LD50 Rat 1870 mg/kg; Inhalation LC50 Rat >13548 ppm 4 h

n-Butyl alcohol (71-36-3)

Inhalation LC50 Rat 8000 ppm 4 h

Ethylene glycol (107-21-1)

Oral LD50 Rat 4000 mg/kg

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Rat 23500 mg/m3 8 h

1,1,1-Trichloroethane (71-55-6)

Dermal LD50 Rabbit >15800 mg/kg; Oral LD50 Rat >2000 mg/kg; Inhalation LC50 Rat 18000 ppm 4 h

Methylene chloride (75-09-2)

Oral LD50 Rat >2000 mg/kg

Tetrachloroethylene (127-18-4)

Inhalation LC50 Rat 4000 ppm 4 h; Dermal LD50 Mouse 2800 mg/kg; Oral LD50 Rat 2629 mg/kg

n-Butyl acetate (123-86-4)

Inhalation LC50 Rat 390 ppm 4 h; Dermal LD50 Rabbit >17600 mg/kg

n-Propyl acetate (109-60-4)

Dermal LD50 Rabbit >20 mL/kg; Oral LD50 Rat 9370 mg/kg

Ethylacetate (141-78-6)

Dermal LD50 Rabbit >20 mL/kg; Oral LD50 Rat 5620 mg/kg

2-Methoxyethanol (109-86-4)

Inhalation LC50 Rat 1500 ppm 7 h; Dermal LD50 Rabbit 1280 mg/kg

Ethylene glycol, monobutyl ether acetate (112-07-2)

Dermal LD50 Rabbit 1480 mg/kg; Oral LD50 Rat 1600 mg/kg

Isopropyl acetate (108-21-4)

Inhalation LC50 Rat 50600 mg/m3 8 h; Dermal LD50 Rabbit >20 mL/kg; Oral LD50 Rat 6750 mg/kg

Methyl acetate (79-20-9)

 $Inhalation \ LC50 \ Rat \ 16000 \ ppm \ 4 \ h; \ Oral \ LD50 \ Rat \ >5000 \ mg/kg; \ Dermal \ LD50 \ Rabbit \ >5 \ g/kg$

Vinyl acetate (108-05-4)

Inhalation LC50 Rat 11400 mg/m3 4 h; Dermal LD50 Rabbit 2320 mg/kg; Oral LD50 Rat 2920 mg/kg

2-Ethoxyethanol (110-80-5)

Inhalation LC50 Rat 2000 ppm 7 h; Dermal LD50 Rabbit 3300 mg/kg; Oral LD50 Rat 1746 mg/kg

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Material Name: HAZARDOUS WASTE DERIVED FUEL ID: 82870

Acute Effects

Component Carcinogenicity

Ethyl benzene (100-41-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: Present (select carcinogen)

IARC: Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))

Styrene (100-42-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

OSHA: Present (select carcinogen)

NTP. Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)

Monograph 82 [2002]; Monograph 60 [1994] (Group 2B (possibly carcinogenic to humans)) IARC:

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Phenol (108-95-2)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Benzene (71-43-2)

ACGIH: A1 - Confirmed Human Carcinogen

OSHA: 5 ppm STEL (See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA (specifically regulated

carcinogen)

Present (select carcinogen)

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Known Carcinogen)

IARC: Monograph 100F [2012]; Supplement 7 [1987]; Monograph 29 [1982] (Group 1 (carcinogenic to humans))

Naphthalene (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

OSHA: Present (select carcinogen)

NTP: Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)

IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

Cyclohexanone (108-94-1)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Methylisobutyl ketone (108-10-1)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: Present (select carcinogen)

IARC: Monograph 101 [2012] (Group 2B (possibly carcinogenic to humans))

Ethyl alcohol (64-17-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: Present (select carcinogen)

IARC: Monograph 100E [2012] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1

(carcinogenic to humans))

Isopropyl alcohol (67-63-0)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

Acetone (67-64-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

n-Propyl alcohol (71-23-8)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Ethylene glycol (107-21-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

1,1,1-Trichloroethane (71-55-6)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 20 [1979] (Group 3 (not classifiable))

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Material Name: HAZARDOUS WASTE DERIVED FUEL

Trichloroethene (79-01-6)

ACGIH: A2 - Suspected Human Carcinogen **OSHA:** Present (select carcinogen)

NIOSH: potential occupational carcinogen

NTP: Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)

IARC: Monograph 106 [in preparation]; Monograph 63 [1995] (Group 1 (carcinogenic to humans))

Methylene chloride (75-09-2)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: 125 ppm STEL (See 29 CFR 1910.1052, 15 min); 12.5 ppm Action Level (See 29 CFR 1910.1052); 25 ppm

TWA (See 29 CFR 1910.1052) (specifically regulated carcinogen)

Present (select carcinogen) NIOSH: potential occupational carcinogen

NTP: Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)

IARC: Monograph 71 [1999]; Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

Tetrachloroethylene (127-18-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: Present (select carcinogen) NIOSH: potential occupational carcinogen

NTP: Reasonably Anticipated To Be A Human Carcinogen (Suspect Carcinogen)

IARC: Monograph 106 [in preparation]; Monograph 63 [1995]; Supplement 7 [1987] (Group 2A (probably

carcenogenic to humans))

Propylene glycol monomethyl ether (107-98-2)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Ethylene glycol, monobutyl ether acetate (112-07-2)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

Vinyl acetate (108-05-4)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: Present (select carcinogen)

IARC: Monograph 63 [1995]; Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))

Sensitization

This product may demonstrate human, animal, and/or experimental effects of skin and/or respiratory tract sensitization.

Mutagenicity

This product may demonstrate human, animal, and/or experimental effects of mutagenicity.

Reproductive Toxicity

This product may contain components which have demonstrated human, animal, and/or experimental effects of reproductive toxicity.

Also see SECTION 15: CALIFORNIA.

Teratogenicity

This product may contain components which have demonstrated human, animal, and/or experimental effects of teratogenicity.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

Product may be toxic to fish, plants, wildlife and/or domestic animals.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethyl benzene (100-41-4)

Duration/Test/Species Concentration/Conditions Notes

48 Hr EC50 Daphnia magna 1.8 - 2.4 mg/L

Styrene (100-42-5)

Duration/Test/Species Concentration/Conditions **Notes**

48 Hr EC50 Daphnia magna 3.3 - 7.4 mg/L

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Material Name: HAZARDOUS WASTE DERIVED FUEL

Toluene (108-88-3) Concentration/Conditions **Duration/Test/Species Notes** 48 Hr EC50 Daphnia magna 5.46 - 9.83 mg/L [Static] 48 Hr EC50 Daphnia magna 11.5 mg/L Phenol (108-95-2) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 4.24 - 10.7 mg/L [Static] 48 Hr EC50 Daphnia magna 10.2 - 15.5 mg/L Pentane (109-66-0) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 Daphnia magna 9.74 mg/L Octanes (111-65-9) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 water flea 0.38 ma/L Decane (124-18-5) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 0.029 mg/L Xylenes (o-, m-, p- isomers) (1330-20-7) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 water flea 3.82 mg/L 48 Hr LC50 Gammarus lacustris 0.6 mg/L Benzene (71-43-2) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 8.76 - 15.6 mg/L [Static] 48 Hr EC50 Daphnia magna 10 ma/L Naphthalene (91-20-3) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr LC50 Daphnia magna 2.16 mg/L 48 Hr EC50 Daphnia magna 1.96 mg/L [Flow through] 48 Hr EC50 Daphnia magna 1.09 - 3.4 mg/L [Static] Methylisobutyl ketone (108-10-1) Duration/Test/Species Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 170 mg/L 1,2-Propylene glycol (57-55-6) Concentration/Conditions **Duration/Test/Species** Notes 48 Hr EC50 Daphnia magna >1000 mg/L [Static] Ethyl alcohol (64-17-5) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr LC50 Daphnia magna 9268 - 14221 mg/L 48 Hr EC50 Daphnia magna 2 mg/L [Static] Isopropyl alcohol (67-63-0) Concentration/Conditions **Duration/Test/Species** Notes 48 Hr EC50 Daphnia magna 13299 mg/L Acetone (67-64-1) **Duration/Test/Species Concentration/Conditions** Notes 48 Hr EC50 Daphnia magna 10294 - 17704 mg/L [Static] 48 Hr EC50 Daphnia magna 12600 - 12700 mg/L n-Propyl alcohol (71-23-8) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 Daphnia magna 3642 mg/L 48 Hr EC50 Daphnia magna 3339 - 3977 mg/L [Static] n-Butyl alcohol (71-36-3) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 1983 mg/L 48 Hr EC50 Daphnia magna 1897 - 2072 mg/L [Static] Ethylene glycol (107-21-1) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 Daphnia magna 46300 mg/L

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Material Name: HAZARDOUS WASTE DERIVED FUEL

Methyl ethyl ketone (78-93-3) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 Daphnia magna >520 mg/L 48 Hr EC50 Daphnia magna 5091 mg/L 48 Hr EC50 Daphnia magna 4025 - 6440 mg/L [Static] 1,1,1-Trichloroethane (71-55-6) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr LC50 Daphnia magna >530 mg/L 48 Hr EC50 Daphnia magna 2384 mg/L 48 Hr EC50 Daphnia magna 9.7 - 12.8 mg/L [Static] Trichloroethene (79-01-6) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 Daphnia magna 2.2 mg/L Methylene chloride (75-09-2) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 1532 - 1847 mg/L [Static] 48 Hr EC50 Daphnia magna 190 mg/L Tetrachloroethylene (127-18-4) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 Daphnia magna 6.1 - 9.0 mg/L [Static] Ethylacetate (141-78-6) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 560 mg/L [Static] Propylene glycol monomethyl ether (107-98-2) **Duration/Test/Species** Concentration/Conditions Notes 48 Hr EC50 Daphnia magna 23300 mg/L Ethylene glycol, monobutyl ether acetate (112-07-2) **Duration/Test/Species** Concentration/Conditions **Notes** 48 Hr EC50 Daphnia magna 37 mg/L Methyl acetate (79-20-9)

* * * Section 13 - Disposal Considerations * * *

1026.7 mg/L

>10000 mg/L

Disposal Instructions

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

Concentration/Conditions

Concentration/Conditions

Notes

Notes

US EPA Waste Number & Descriptions

Duration/Test/Species

48 Hr EC50 Daphnia magna

48 Hr EC50 Daphnia magna

2-Ethoxyethanol (110-80-5) Duration/Test/Species

D001. U220, U188, U056,U239, U019, U165, U057, U161, U154, U002, U031, U159, U359, U112, U2280, U080, U2100, U226.

This product is a RCRA (US EPA Resource Conservation and Recovery Act) hazardous waste and is subject to the RCRA manifesting requirements. You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

* * * Section 14 - Transportation Information * * *

Emergency Response Guide Number

128 Reference .North American Emergency Response Guidebook

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Material Name: HAZARDOUS WASTE DERIVED FUEL ID: 82870

DOT

Shipping Name: Waste flammable liquids, toxic, n.o.s. (Contains: Xylenes (o-, m-, p- isomers),

Tetrachloroethylene)

UN/NA #: UN1992 Hazard Class: 3, 6.1 Packing Group: II

Required Label(s): 3, 6.1

Additional Information: "RQ" should be added to the end of the proper shipping description if given the amount of the shipment and percentage of components the appropriate amounts are exceeded in a single package.

TDG

Shipping Name: Waste flammable liquids, toxic, n.o.s. (Contains: Xylenes (o-, m-, p- isomers),

Tetrachloroethylene)

UN/NA #: UN1992 Hazard Class: 3, 6.1 Packing Group: II

Required Label(s): 3, (6.1)

IATA Information

No Classification Assigned.

IMDG Information

No Classification Assigned.

Section 15 - Regulatory Information

VOC (As Regulated)

80 to 100 WT%; 5.5 to 6.9 LB/US gal (664 to 830 g/l)

As per 40 CFR Part 51.100(s).

SARA Sections 311/312

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does contain "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B:

Phenol (108-95-2) 500 lb lower TPQ; 10000 lb upper TPQ

Vinyl acetate (108-05-4) 1000 lb TPQ

SARA Section 313

Component Analysis

This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Ethyl benzene (100-41-4) 0.1 % de minimis concentration Styrene (100-42-5) 0.1 % de minimis concentration Toluene (108-88-3) 1.0 % de minimis concentration Phenol (108-95-2) 1.0 % de minimis concentration Hexane (110-54-3) 1.0 % de minimis concentration Cyclohexane (110-82-7) 1.0 % de minimis concentration Xylenes (o-, m-, p- isomers) (1330-20-7) 1.0 % de minimis concentration Benzene (71-43-2) 0.1 % de minimis concentration Naphthalene (91-20-3) 0.1 % de minimis concentration Cyclohexanol (108-93-0) 1.0 % de minimis concentration Methylisobutyl ketone (108-10-1) 1.0 % de minimis concentration Methyl alcohol (67-56-1) 1.0 % de minimis concentration

Isopropyl alcohol (67-63-0) 1.0 % de minimis concentration (only if manufactured by the

strong acid process, no supplier notification)

n-Butyl alcohol (71-36-3) 1.0 % de minimis concentration Ethylene glycol (107-21-1) 1.0 % de minimis concentration 1,1,1-Trichloroethane (71-55-6) 1.0 % de minimis concentration Trichloroethene (79-01-6) 0.1 % de minimis concentration

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Material Name: HAZARDOUS WASTE DERIVED FUEL

Methylene chloride (75-09-2)0.1 % de minimis concentrationTetrachloroethylene (127-18-4)0.1 % de minimis concentration2-Methoxyethanol (109-86-4)1.0 % de minimis concentrationVinyl acetate (108-05-4)0.1 % de minimis concentration2-Ethoxyethanol (110-80-5)1.0 % de minimis concentration

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

 Ethyl benzene (100-41-4)
 1000 lb final RQ; 454 kg final RQ

 Styrene (100-42-5)
 1000 lb final RQ; 454 kg final RQ

 Toluene (108-88-3)
 1000 lb final RQ; 454 kg final RQ

 Phenol (108-95-2)
 1000 lb final RQ; 454 kg final RQ

 Hexane (110-54-3)
 5000 lb final RQ; 2270 kg final RQ

 Cyclohexane (110-82-7)
 1000 lb final RQ; 454 kg final RQ

 Xylenes (o-, m-, p- isomers) (1330-20-7)
 100 lb final RQ; 45.4 kg final RQ

Benzene (71-43-2)

10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on

potential carcinogenicity in an August 14, 1989 final rule)

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Naphthalene (91-20-3) 100 lb final RQ; 45.4 kg final RQ Cyclohexanone (108-94-1) 5000 lb final RQ; 2270 kg final RQ Methylisobutyl ketone (108-10-1) 5000 lb final RQ; 2270 kg final RQ Methyl alcohol (67-56-1) 5000 lb final RQ; 2270 kg final RQ Acetone (67-64-1) 5000 lb final RQ; 2270 kg final RQ n-Butyl alcohol (71-36-3) 5000 lb final RQ; 2270 kg final RQ Ethylene glycol (107-21-1) 5000 lb final RQ; 2270 kg final RQ Methyl ethyl ketone (78-93-3) 5000 lb final RQ; 2270 kg final RQ 1,1,1-Trichloroethane (71-55-6) 1000 lb final RQ; 454 kg final RQ Trichloroethene (79-01-6) 100 lb final RQ; 45.4 kg final RQ Methylene chloride (75-09-2) 1000 lb final RQ; 454 kg final RQ Tetrachloroethylene (127-18-4) 100 lb final RQ; 45.4 kg final RQ n-Butyl acetate (123-86-4) 5000 lb final RQ; 2270 kg final RQ Ethylacetate (141-78-6) 5000 lb final RQ; 2270 kg final RQ Vinyl acetate (108-05-4) 5000 lb final RQ; 2270 kg final RQ 2-Ethoxyethanol (110-80-5) 1000 lb final RQ; 454 kg final RQ

TSCA

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

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Material Name: HAZARDOUS WASTE DERIVED FUEL

Component Analysis

Component	CAS#	TSCA
Ethyl benzene	100-41-4	Yes
Styrene	100-42-5	Yes
Toluene	108-88-3	Yes
Phenol	108-95-2	Yes
Pentane	109-66-0	Yes
Hexane	110-54-3	Yes
Cyclohexane	110-82-7	Yes
Octanes	111-65-9	Yes
Nonane	111-84-2	Yes
Dodecane	112-40-3	Yes
Decane	124-18-5	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes
Heptane (n-)	142-82-5	Yes
Benzene	71-43-2	Yes
Naphthalene	91-20-3	Yes
Cyclohexanol	108-93-0	Yes
Cyclohexanone	108-94-1	Yes
Methylisobutyl ketone	108-10-1	Yes
1,2-Propylene glycol	57-55-6	Yes
Ethyl alcohol	64-17-5	Yes
Methyl alcohol	67-56-1	Yes
Isopropyl alcohol	67-63-0	Yes
Acetone	67-64-1	Yes
n-Propyl alcohol	71-23-8	Yes
n-Butyl alcohol	71-36-3	Yes
Ethylene glycol	107-21-1	Yes
Water	7732-18-5	Yes
Methyl ethyl ketone	78-93-3	Yes
Methyl n-amyl ketone	110-43-0	Yes
1,1,1-Trichloroethane	71-55-6	Yes
Trichloroethene	79-01-6	Yes
Methylene chloride	75-09-2	Yes
Tetrachloroethylene	127-18-4	Yes
n-Butyl acetate	123-86-4	Yes
n-Propyl acetate	109-60-4	Yes
Ethylacetate	141-78-6	Yes
Propylene glycol monomethyl ether	107-98-2	Yes
2-Methoxyethanol	109-86-4	Yes
Ethylene glycol, monobutyl ether acetate	112-07-2	Yes
Isopropyl acetate	108-21-4	Yes
2-Methoxyethyl acetate	110-49-6	Yes
Methyl acetate	79-20-9	Yes
Vinyl acetate	108-05-4	Yes
2-Ethoxyethanol	110-80-5	Yes

State Regulations

This product is not for sale or use in the State of California.

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Ethyl benzene	100-41-4	Yes	Yes	Yes	Yes	Yes
Styrene	100-42-5	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Phenol	108-95-2	Yes	Yes	Yes	Yes	Yes

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Material Name: HAZARDOUS WASTE DERIVED FUEL

Pentane	109-66-0	Yes	Yes	Yes	Yes	Yes
Hexane	110-54-3	No	Yes	Yes	Yes	Yes
Cyclohexane	110-82-7	Yes	Yes	Yes	Yes	Yes
Octanes	111-65-9	Yes	Yes	Yes	Yes	Yes
Nonane	111-84-2	Yes	Yes	Yes	Yes	Yes
Decane	124-18-5	No	No	No	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes
Heptane (n-)	142-82-5	Yes	Yes	Yes	Yes	Yes
Benzene	71-43-2	Yes	Yes	Yes	Yes	Yes
Naphthalene	91-20-3	Yes	Yes	Yes	Yes	Yes
Cyclohexanol	108-93-0	Yes	Yes	Yes	Yes	Yes
Cyclohexanone	108-94-1	Yes	Yes	Yes	Yes	Yes
Methylisobutyl ketone	108-10-1	Yes	Yes	Yes	Yes	Yes
1,2-Propylene glycol	57-55-6	No	No	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
n-Propyl alcohol	71-23-8	Yes	Yes	Yes	Yes	Yes
n-Butyl alcohol	71-36-3	Yes	Yes	Yes	Yes	Yes
Ethylene glycol	107-21-1	Yes	Yes	Yes	Yes	Yes
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes
Methyl n-amyl ketone	110-43-0	Yes	Yes	Yes	Yes	Yes
1,1,1-Trichloroethane	71-55-6	Yes	Yes	Yes	Yes	Yes
Trichloroethene	79-01-6	Yes	Yes	Yes	Yes	Yes
Methylene chloride	75-09-2	Yes	Yes	Yes	Yes	Yes
Tetrachloroethylene	127-18-4	Yes	Yes	Yes	Yes	Yes
n-Butyl acetate	123-86-4	Yes	Yes	Yes	Yes	Yes
n-Propyl acetate	109-60-4	Yes	Yes	Yes	Yes	Yes
Ethylacetate	141-78-6	Yes	Yes	Yes	Yes	Yes
Propylene glycol monomethyl ether	107-98-2	Yes	Yes	Yes	Yes	Yes
2-Methoxyethanol	109-86-4	Yes	Yes	Yes	Yes	Yes
Ethylene glycol, monobutyl ether acetate	112-07-2	No	No	No	Yes	No
Isopropyl acetate	108-21-4	Yes	Yes	Yes	Yes	Yes
2-Methoxyethyl acetate	110-49-6	Yes	Yes	Yes	Yes	Yes
Methyl acetate	79-20-9	Yes	Yes	Yes	Yes	Yes
Vinyl acetate	108-05-4	Yes	Yes	Yes	Yes	Yes
2-Ethoxyethanol	110-80-5	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

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Material Name: HAZARDOUS WASTE DERIVED FUEL ID: 82870

Component Marine Pollutants

This material contains one or more of the following chemicals required by US DOT to be identified as marine pollutants.

Component	CAS#	
Tetrachloroethylene	127-18-4	DOT regulated marine pollutant

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

Ethyl benzene 100-41-4 DSL Styrene 100-42-5 DSL Toluene 108-88-3 DSL Phenol 108-89-2 DSL Pentane 109-66-0 DSL Hexane 110-54-3 DSL Cyclohexane 110-82-7 DSL Octanes 111-65-9 DSL Nonane 111-84-2 DSL Dodecane 112-40-3 DSL Decane 112-41-5 DSL Xylenes (o-, m-, p- isomers) 1330-20-7 DSL Heptane (n-) 142-82-5 DSL Benzene 71-43-2 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-94-1 DSL Wethylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 67-65-1 DSL Methyl alcohol 67-66-1 DSL Isopropyl alcohol	Component	CAS#	CAN
Toluene	Ethyl benzene	100-41-4	DSL
Phenol 108-95-2 DSL Pentane 109-66-0 DSL Hexane 110-82-7 DSL Cyclohexane 110-82-7 DSL Octanes 111-65-9 DSL Nonane 111-84-2 DSL Dodecane 112-40-3 DSL Decane 124-18-5 DSL Xylenes (o-, m-, p- isomers) 1330-20-7 DSL Heptane (n-) 142-82-5 DSL Heptane (n-) 142-82-5 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-94-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 67-55-6 DSL Methyl alcohol 67-63-0 DSL Isopropyl alcohol 67-63-0 DSL n-Propyl alcohol 71-36-3 DSL n-Pro	Styrene	100-42-5	DSL
Pentane 109-66-0 DSL Hexane 110-54-3 DSL Cyclohexane 110-82-7 DSL Octanes 111-85-9 DSL Nonane 111-84-2 DSL Dodecane 112-40-3 DSL Decane 124-18-5 DSL Xylenes (o-, m-, p- isomers) 1330-20-7 DSL Heptane (n-) 142-82-5 DSL Heptane (n-) 142-82-5 DSL Benzene 71-43-2 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanol 108-94-1 DSL Methylisobutyl ketone 108-94-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-66-1 DSL Isopropyl alcohol 67-66-1 DSL Acetone 67-64-1 DSL n-Putyl alcohol 71-36-3 DSL Ethylene glyco	Toluene		DSL
Hexane	Phenol	108-95-2	DSL
Cyclohexane 110-82-7 DSL Octanes 111-65-9 DSL Nonane 111-84-2 DSL Dodecane 112-40-3 DSL Decane 124-18-5 DSL Xylenes (o-, m-, p- isomers) 1330-20-7 DSL Heptane (n-) 142-82-5 DSL Benzene 71-43-2 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 67-56-1 DSL Methyl alcohol 67-56-1 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-38-8 DSL n-Putyl alcohol 71-36-3 DSL Ethylene glycol 71-36-3 DSL Water 7732-18-5 DSL Methyl	Pentane	109-66-0	DSL
Octanes 111-65-9 DSL Nonane 111-84-2 DSL Dodecane 1124-0-3 DSL Decane 124-18-5 DSL Xylenes (o-, m-, p- isomers) 1330-20-7 DSL Heptane (n-) 142-82-5 DSL Benzene 71-43-2 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-94-1 DSL 12.2 Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-66-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL n-Butyl alcohol 71-36-3 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL	Hexane	110-54-3	DSL
Nonane	Cyclohexane	110-82-7	DSL
Dodecane	Octanes		DSL
Decane 124-18-5 DSL Xylenes (o-, m-, p- isomers) 1330-20-7 DSL Heptane (n-) 142-82-5 DSL Benzene 71-43-2 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 64-17-5 DSL Isopropyl alcohol 67-66-1 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-38-3 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL Trichloroethane 71-55-6 DSL Trichloroethene 75-09-2 DSL	Nonane	111-84-2	DSL
Xylenes (o-, m-, p- isomers) 1330-20-7 DSL Heptane (n-) 142-82-5 DSL Benzene 71-43-2 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 110-43-0 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL	Dodecane	112-40-3	DSL
Heptane (n-)	Decane	124-18-5	DSL
Benzene 71-43-2 DSL Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-10-1 DSL Methylisobutyl ketone 57-55-6 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-66-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl ethyl ketone 71-55-6 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethane 75-09-2 DSL Tetrachloroethylene 127-18-4	Xylenes (o-, m-, p- isomers)	1330-20-7	DSL
Naphthalene 91-20-3 DSL Cyclohexanol 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-66-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 109-60-4 DSL thylacetate 109-60-4	Heptane (n-)	142-82-5	DSL
Cyclohexanol 108-93-0 DSL Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 109-60-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 <td>Benzene</td> <td>71-43-2</td> <td>DSL</td>	Benzene	71-43-2	DSL
Cyclohexanone 108-94-1 DSL Methylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Naphthalene	91-20-3	DSL
Methylisobutyl ketone 108-10-1 DSL 1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 773-218-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Cyclohexanol	108-93-0	DSL
1,2-Propylene glycol 57-55-6 DSL Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Cyclohexanone	108-94-1	DSL
Ethyl alcohol 64-17-5 DSL Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Methylisobutyl ketone	108-10-1	DSL
Methyl alcohol 67-56-1 DSL Isopropyl alcohol 67-63-0 DSL Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL		57-55-6	DSL
Isopropyl alcohol 67-63-0 DSL	Ethyl alcohol	64-17-5	DSL
Acetone 67-64-1 DSL n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Methyl alcohol		
n-Propyl alcohol 71-23-8 DSL n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Isopropyl alcohol	67-63-0	DSL
n-Butyl alcohol 71-36-3 DSL Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Acetone		
Ethylene glycol 107-21-1 DSL Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL		71-23-8	DSL
Water 7732-18-5 DSL Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL		71-36-3	DSL
Methyl ethyl ketone 78-93-3 DSL Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Ethylene glycol	107-21-1	DSL
Methyl n-amyl ketone 110-43-0 DSL 1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Water	7732-18-5	DSL
1,1,1-Trichloroethane 71-55-6 DSL Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL		78-93-3	DSL
Trichloroethene 79-01-6 DSL Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL		110-43-0	DSL
Methylene chloride 75-09-2 DSL Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	1,1,1-Trichloroethane	71-55-6	
Tetrachloroethylene 127-18-4 DSL n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL	Trichloroethene	79-01-6	DSL
n-Butyl acetate 123-86-4 DSL n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL			
n-Propyl acetate 109-60-4 DSL Ethylacetate 141-78-6 DSL			
Ethylacetate 141-78-6 DSL			
		109-60-4	DSL
Propylene glycol monomethyl ether 107-98-2 DSL			_
	Propylene glycol monomethyl ether	107-98-2	DSL

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2-Methoxyethanol	109-86-4	DSL
Ethylene glycol, monobutyl ether acetate	112-07-2	DSL
Isopropyl acetate	108-21-4	DSL
2-Methoxyethyl acetate	110-49-6	DSL
Methyl acetate	79-20-9	DSL
Vinyl acetate	108-05-4	DSL
2-Ethoxyethanol	110-80-5	DSL

Canadian WHMIS Information

Class B2 - Flammable Liquid Class D1A - Contains a component that is acutely lethal. Class D2A - Contains component that may cause cancer. Class D2B - Irritating to eyes and skin.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

The following components are identified under t	ine Car
Ethyl benzene (100-41-4)	0.1 %
Styrene (100-42-5)	0.1 %
Toluene (108-88-3)	1 %
Phenol (108-95-2)	1 %
Pentane (109-66-0)	1 %
Hexane (110-54-3)	1 %
Cyclohexane (110-82-7)	1 %
Octanes (111-65-9)	1 %
Nonane (111-84-2)	1 %
Heptane (n-) (142-82-5)	1 %
Benzene (71-43-2)	0.1 %
Naphthalene (91-20-3)	1 %
Cyclohexanol (108-93-0)	1 %
Cyclohexanone (108-94-1)	0.1 %
Methylisobutyl ketone (108-10-1)	1 %
1,2-Propylene glycol (57-55-6)	1 %
Ethyl alcohol (64-17-5)	0.1 %
Methyl alcohol (67-56-1)	1 %
Isopropyl alcohol (67-63-0)	1 %
Acetone (67-64-1)	1 %
n-Propyl alcohol (71-23-8)	1 %
n-Butyl alcohol (71-36-3)	1 %
Ethylene glycol (107-21-1)	1 %
Methyl ethyl ketone (78-93-3)	1 %
Methyl n-amyl ketone (110-43-0)	1 %
1,1,1-Trichloroethane (71-55-6)	0.1 %
Trichloroethene (79-01-6)	1 %
Methylene chloride (75-09-2)	0.1 %
Tetrachloroethylene (127-18-4)	1 %
n-Butyl acetate (123-86-4)	1 %
n-Propyl acetate (109-60-4)	1 %
Ethylacetate (141-78-6)	1 %
Propylene glycol monomethyl ether (107-98-2)	1 %
2-Methoxyethanol (109-86-4)	0.1 %
Isopropyl acetate (108-21-4)	1 %
2-Methoxyethyl acetate (110-49-6)	0.1 %
Methyl acetate (79-20-9)	1 %
Vinyl acetate (108-05-4)	1 %
2-Ethoxyethanol (110-80-5)	0.1 %
E	

Canadian Environmental Protection Act (CEPA)

All the components of this product are listed on, or are automatically included as "substance occurring in nature" on, or are exempted from the requirements to be listed on, the Canadian Domestic Substances List (DSL).

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Material Name: HAZARDOUS WASTE DERIVED FUEL ID: 82870

* * * Section 16 - Other Information * * *

Label/Other Information

Not available.

Revision Information

3 year regulatory update. This MSDS has been revised in the following sections: 1, 2, 3, 5, 8, 10, 11, 12, 15, 16.

Disclaimer

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.

End of Sheet 820014

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