

1. Product and Company Identification

Material name	1 LIQUID NUCLEAR GRADE
Version #	01
Issue date	11-15-2012
Revision date	11-15-2012
Supersedes date	12-07-2011
Chemical name	Phenolic Resin
Chemical description	Resin Mixture
CAS #	Mixture
Product code	805-0009
Product use	Industrial Leak Sealant
Manufacturer information	
Manufacturer/Supplier	Team Industrial Services, Inc. 200 Hermann Drive, Alvin, Texas 77511
Emergency Contact	CHEMTREC - 24 HOURS USA: CHEMTREC: 800-424-9300 International: 703-527-3887 (Collect)

2. Hazards Identification

Physical state	Liquid.
Appearance	Black pliable semi-solid with phenolic odor.
Emergency overview	DANGER Flammable liquid. Cancer hazard - can cause cancer. May cause eye, skin and digestive tract burns. May cause severe respiratory tract irritation. Harmful if inhaled, absorbed through skin, or swallowed. Contains material which may cause lung, liver, kidney, heart, blood and central nervous system damage.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	May cause chemical eye burns. May cause permanent damage.
Skin	May cause skin burns. Harmful if absorbed through skin. Components of the product may be absorbed into the body through the skin. Risk of sensitization or allergic reactions among sensitive individuals. The product contains organic solvents which may be absorbed into the body by skin contact and may cause permanent damage to the nervous system, including the brain.
Inhalation	May cause severe respiratory tract irritation. May cause burns in mucous membranes, throat, esophagus and stomach. Harmful if inhaled. When cured: Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the respiratory tract.
Ingestion	May cause digestive tract burns. Harmful if swallowed. Components of the product may be absorbed into the body by ingestion.
Target organs	Blood. Cardiac. Central nervous system. Digestive tract.. Eyes. Kidneys. Liver. Lungs. Mucous membranes. Respiratory system. Skin.
Chronic effects	Cancer hazard - can cause cancer. Can cause kidney, liver, lung and central nervous system damage. Exposure to formaldehyde may cause respiratory sensitization in some individuals or aggravate pre-existing asthmatic conditions. Danger of serious damage to health by prolonged exposure. When cured: Phenolic resin releases formaldehyde and formaldehyde has carcinogenic potential and is a known skin and respiratory sensitizer.
Signs and symptoms	Unconsciousness. Coughing. Shortness of breath. Discomfort in the chest. Irritation of nose and throat. Symptoms include itching, burning, redness and tearing. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.
Potential environmental effects	The product contains a substance which may be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Methyl urea formaldehyde resin	68071-45-4	20 - 40
Phenol, polymer with formaldehyde	9003-35-4	20 - 40
Ethanol	64-17-5	10 - 20
m-Cresol p-	108-39-4	2.5 - 10
Cresol	106-44-5	2.5 - 10
Phenol	108-95-2	1 - 2.5
Water	7732-18-5	1 - 2.5
Ethylphenol	25429-37-2	0.1 - 1
Hexamethylenetetramine	100-97-0	0.1 - 1
Xylenol	1300-71-6	0.1 - 1
o-Cresol	95-48-7	0.1 - 1
Formaldehyde	50-00-0	< 1

Composition comments All concentrations are in percent by weight.

4. First Aid Measures

First aid procedures

Eye contact	Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available, flush an additional 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.
Inhalation	If breathing stops, provide artificial respiration. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Only induce vomiting at the instruction of medical personnel. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical attention immediately.

Notes to physician Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.

General advice Chemical burns must be treated by a physician.

5. Fire Fighting Measures

Flammable properties Flammable liquid and vapor. Heated material: Vapors may travel to a source of ignition and flash back. If heated, volume and pressure increases strongly, resulting in explosion of container.

Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	No restrictions known.

Protection of firefighters

Specific hazards arising from the chemical	Solvent vapors may form explosive mixtures with air. During fire, gases hazardous to health may be formed.
Protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions Ventilate closed spaces before entering them. Containers should be cooled with water to prevent vapor pressure build up. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Evacuate area and fight fire from a safe distance. Stop leak if you can do so without risk. Move containers from fire area if you can do it without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion products Carbon oxides. Formaldehyde. Nitrogen oxides (NOx).

6. Accidental Release Measures

Personal precautions	Avoid any exposure. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Environmental manager must be informed of all major spillages.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Eliminate all ignition sources. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Sweep up or vacuum up spillage and collect in suitable container for disposal. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in Section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Avoid any exposure. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Do not handle until all safety precautions have been read and understood. Should be handled in closed systems, if possible. Use only with adequate ventilation. Use personal protective equipment as required.
Storage	Follow rules for flammable liquids. Keep away from heat, spark, open flames and other sources of ignition. Keep away from sources of ignition - No smoking. Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm	
m-Cresol (CAS 108-39-4)	TWA	20 mg/m3	Inhalable fraction and vapor.
o-Cresol (CAS 95-48-7)	TWA	20 mg/m3	Inhalable fraction and vapor.
p-Cresol (CAS 106-44-5)	TWA	20 mg/m3	Inhalable fraction and vapor.
Phenol (CAS 108-95-2)	TWA	5 ppm	

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Formaldehyde (CAS 50-00-0)	STEL	2 ppm
	TWA	0.75 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
m-Cresol (CAS 108-39-4)	PEL	22 mg/m3 5 ppm
o-Cresol (CAS 95-48-7)	PEL	22 mg/m3 5 ppm
p-Cresol (CAS 106-44-5)	PEL	22 mg/m3 5 ppm
Phenol (CAS 108-95-2)	PEL	19 mg/m3 5 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3 1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	1.3 mg/m3
	TWA	1 ppm 0.9 mg/m3 0.75 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m3 5 ppm
o-Cresol (CAS 95-48-7)	TWA	22 mg/m3 5 ppm
p-Cresol (CAS 106-44-5)	TWA	50 mg/m3 10 ppm
Phenol (CAS 108-95-2)	TWA	19 mg/m3 5 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	1 ppm
	TWA	0.3 ppm
m-Cresol (CAS 108-39-4)	TWA	10 mg/m3
o-Cresol (CAS 95-48-7)	TWA	10 mg/m3
p-Cresol (CAS 106-44-5)	TWA	10 mg/m3
Phenol (CAS 108-95-2)	TWA	5 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	1.5 ppm
	STEL	1 ppm
Hexamethylenetetramine (CAS 100-97-0)	STEL	2 mg/m3
		0.35 ppm
m-Cresol (CAS 108-39-4)	TWA	5 ppm
o-Cresol (CAS 95-48-7)	TWA	5 ppm
p-Cresol (CAS 106-44-5)	TWA	5 ppm
Phenol (CAS 108-95-2)	TWA	5 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3 1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	3 mg/m3
		2 ppm
m-Cresol (CAS 108-39-4)	TWA	22 mg/m3 5 ppm
o-Cresol (CAS 95-48-7)	TWA	22 mg/m3 5 ppm
p-Cresol (CAS 106-44-5)	TWA	22 mg/m3 5 ppm
Phenol (CAS 108-95-2)	TWA	19 mg/m3 5 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm
Formaldehyde (CAS 50-00-0)	Ceiling	3 mg/m3
m-Cresol (CAS 108-39-4)	TWA	2 ppm 22 mg/m3
o-Cresol (CAS 95-48-7)	TWA	5 ppm 22 mg/m3
p-Cresol (CAS 106-44-5)	TWA	5 ppm 22 mg/m3
Phenol (CAS 108-95-2)	STEL	5 ppm 38 mg/m3
	TWA	10 ppm 19 mg/m3 5 ppm

Engineering controls Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of exposure. If enclosed handling cannot be guaranteed, ventilation and protective clothing must be used. Avoid recirculation of exhaust air containing these substances or this material. An eye wash and safety shower must be available in the immediate work area.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection Wear suitable gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Wear appropriate clothing to prevent possibility of skin contact.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Black pliable semi-solid with phenolic odor.
Physical state	Liquid.
Form	Pliable semi-solid.
Color	Black.
Odor	Phenolic.
Odor threshold	0.003 - 5 ppm (m-Cresol)
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Slightly.
Specific gravity	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Partition coefficient (n-octanol/water)	No data available.

Other data

Decomposition temperature > 1200 °F (> 648.9 °C) When cured

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Flames and sparks. Avoid static discharge and uncontrolled exposure to high temperatures. Contact with incompatible materials.
Incompatible materials	Strong oxidizers, strong acids, and strong bases. Strong reducing agents.
Hazardous decomposition products	Carbon oxides. Formaldehyde. Nitrogen oxides (NOx).
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Ethanol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Rat	30000 mg/m3
<i>Oral</i>		
LD50	Rat	11.5 g/kg
Formaldehyde (CAS 50-00-0)		
Acute		
<i>Inhalation</i>		
LC50	Rat	0.48 mg/l, 4 Hours
m-Cresol (CAS 108-39-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	620 mg/kg
<i>Oral</i>		
LD50	Rat	242 mg/kg
o-Cresol (CAS 95-48-7)		
Acute		
<i>Dermal</i>		
LD50	Mouse	620 mg/kg
	Rabbit	890 mg/kg
	Rat	620 mg/kg
<i>Oral</i>		
LD50	Mouse	344 mg/kg
	Rabbit	940 mg/kg
	Rat	121 mg/kg
p-Cresol (CAS 106-44-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	300 mg/kg
<i>Oral</i>		
LD50	Rat	207 mg/kg
Phenol (CAS 108-95-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	850 mg/kg

Components	Species	Test Results
Oral LD50	Rat	530 mg/kg
Sensitization	The product contains a sensitizing substance which may provoke an allergic reaction among sensitive individuals.	
ACGIH Sensitizer		
Formaldehyde (CAS 50-00-0)	Sensitizer.	
Acute effects	May cause skin, eye and digestive tract burns. May cause severe respiratory tract irritation. Harmful if inhaled, absorbed through skin, or swallowed. Contains material which may cause lung, liver, kidney, heart, blood and central nervous system damage.	
Local effects	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.	
US. ACGIH Threshold Limit Values		
m-Cresol (CAS 108-39-4)	Can be absorbed through the skin.	
o-Cresol (CAS 95-48-7)	Can be absorbed through the skin.	
p-Cresol (CAS 106-44-5)	Can be absorbed through the skin.	
Phenol (CAS 108-95-2)	Can be absorbed through the skin.	
Chronic effects	Exposure to formaldehyde may cause respiratory sensitization in some individuals or aggravate pre-existing asthmatic conditions. Danger of serious damage to health by prolonged exposure. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. When cured: Phenolic resin releases formaldehyde and formaldehyde has carcinogenic potential and is a known skin and respiratory sensitizer.	
Carcinogenicity	Cancer hazard - can cause cancer.	
ACGIH Carcinogens		
Ethanol (CAS 64-17-5)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Formaldehyde (CAS 50-00-0)	A2 Suspected human carcinogen.	
m-Cresol (CAS 108-39-4)	A4 Not classifiable as a human carcinogen.	
o-Cresol (CAS 95-48-7)	A4 Not classifiable as a human carcinogen.	
p-Cresol (CAS 106-44-5)	A4 Not classifiable as a human carcinogen.	
Phenol (CAS 108-95-2)	A4 Not classifiable as a human carcinogen.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Formaldehyde (CAS 50-00-0)	1 Carcinogenic to humans.	
Phenol (CAS 108-95-2)	3 Not classifiable as to carcinogenicity to humans.	
US NTP Report on Carcinogens: Known carcinogen		
Formaldehyde (CAS 50-00-0)	Known To Be Human Carcinogen.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Formaldehyde (CAS 50-00-0)	Potential cancer hazard.	
Epidemiology	None known.	
Mutagenicity	Contains a substance which may have a mutagenic effect. Suspected of causing genetic defects.	
Neurological effects	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue) and/or damage.	
Reproductive effects	Contains a substance which may have a reproductive effect.	
Teratogenicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.	
Symptoms and target organs	Slightly corrosive. Prolonged contact may causes serious eye and tissue damage. Prolonged or repeated inhalation/ingestion may cause central nervous system, blood, lung, liver or kidney damage.	
Further information	Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.	

12. Ecological Information

Ecotoxicological data

Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Aquatic			
Algae Fish	EC50	Freshwater algae	275 mg/l, 72 Hours
		Marine water algae	1970 mg/l
Invertebrate	LC50	Fathead minnow (<i>Pimephales promelas</i>)	> 100 mg/l, 96 hours
		Freshwater fish	11200 mg/l, 96 Hours
Formaldehyde (CAS 50-00-0)			
Aquatic			
Crustacea	EC50	Freshwater invertebrate	5012 mg/l, 48 Hours
Fish		Marine water invertebrate	857 mg/l, 48 Hours
	EC50	Water flea (<i>Daphnia pulex</i>)	4.3 - 7.8 mg/l, 48 hours
	LC50	American eel (<i>Anguilla rostrata</i>)	0 - 197.79 mg/l, 96 hours
Hexamethylenetetramine (CAS 100-97-0)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	29868 - 43390 mg/l, 48 hours
Fish	LC50	Bleak (<i>Alburnus alburnus</i>)	> 10000 mg/l, 96 hours
m-Cresol (CAS 108-39-4)			
Aquatic			
Crustacea	EC50	Scud (<i>Gammarus fasciatus</i>)	7 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	8.9 mg/l, 96 hours
o-Cresol (CAS 95-48-7)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	15.8 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	8.4 mg/l, 96 hours
p-Cresol (CAS 106-44-5)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	7.7 mg/l, 48 hours
Fish	LC50	Fish (<i>Lepidocephalichthyes guntea</i>)	6.15 - 7.96 mg/l, 96 hours
Ecotoxicity	The product contains a substance which may be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.		
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Persistence and degradability	No data available.		
Bioaccumulation / Accumulation	No data available.		
Partition coefficient	No data available.		
Ethanol		-0.31	
Formaldehyde		0.35	
Phenol		1.46	
p-Cresol		1.94	
o-Cresol		1.95	
m-Cresol		1.96	
Xylenol		2.23 - 2.61	
Mobility in environmental media	The product is slightly soluble in water. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.		

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 °F D002: Waste Corrosive material [pH ≤2 or ≥12.5, or corrosive to steel]
Disposal instructions	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Dispose of this material and its container to hazardous or special waste collection point.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1866
Proper shipping name	Resin solution
Hazard class	3
Packing group	III
Additional information:	
Special provisions	B1, B52, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242

IATA

UN number	UN1866
UN proper shipping name	Resin solution
Transport hazard class(es)	3
Packing group	III
ERG code	3L

IMDG

UN number	UN1866
UN proper shipping name	RESIN SOLUTION
Transport hazard class(es)	3
Packing group	III
EmS	F-E, S-E

TDG

Proper shipping name	RESIN SOLUTION
Hazard class UN	3
number Packing	UN1866
group Marine	III
pollutant	D

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Formaldehyde (CAS 50-00-0)
m-Cresol (CAS 108-39-4)
o-Cresol (CAS 95-48-7)
p-Cresol (CAS 106-44-5)
Phenol (CAS 108-95-2)

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Formaldehyde (CAS 50-00-0)	100 LBS
o-Cresol (CAS 95-48-7)	100 LBS
Phenol (CAS 108-95-2)	1000 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

Formaldehyde (CAS 50-00-0) 500 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold planning quantity, lower value

o-Cresol (CAS 95-48-7) 1000 LBS

Phenol (CAS 108-95-2) 500 LBS

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold planning quantity, upper value

o-Cresol (CAS 95-48-7) 10000 LBS

Phenol (CAS 108-95-2) 10000 LBS

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Formaldehyde (CAS 50-00-0) 0.1 %

m-Cresol (CAS 108-39-4) 1.0 %

o-Cresol (CAS 95-48-7) 1.0 %

p-Cresol (CAS 106-44-5) 1.0 %

Phenol (CAS 108-95-2) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Formaldehyde (CAS 50-00-0) Listed.

m-Cresol (CAS 108-39-4) Listed.

o-Cresol (CAS 95-48-7) Listed.

p-Cresol (CAS 106-44-5) Listed.

Phenol (CAS 108-95-2) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

m-Cresol: 100

p-Cresol: 100

Phenol: 1000

Xylenol: 1000

o-Cresol: 100

Formaldehyde: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) Yes

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

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

WHMIS status Controlled

WHMIS classification

B3 - Combustible Liquids
 D1A - Immediate/Serious-VERY TOXIC
 D2A - Other Toxic Effects-VERY TOXIC
 D2B - Other Toxic Effects-TOXIC
 E - Corrosive

WHMIS labeling**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

US - California Hazardous Substances (Director's): Listed substance

Ethanol (CAS 64-17-5)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
m-Cresol (CAS 108-39-4)	Listed.
o-Cresol (CAS 95-48-7)	Listed.
p-Cresol (CAS 106-44-5)	Listed.
Phenol (CAS 108-95-2)	Listed.
Xylenol (CAS 1300-71-6)	Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde (CAS 50-00-0)	Listed.
----------------------------	---------

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Formaldehyde (CAS 50-00-0)	Listed: January 1, 1988 Carcinogenic.
----------------------------	---------------------------------------

US - New Jersey RTK - Substances: Listed substance

Ethanol (CAS 64-17-5)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
Hexamethylenetetramine (CAS 100-97-0)	Listed.
m-Cresol (CAS 108-39-4)	Listed.
o-Cresol (CAS 95-48-7)	Listed.
p-Cresol (CAS 106-44-5)	Listed.
Phenol (CAS 108-95-2)	Listed.
Xylenol (CAS 1300-71-6)	Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Formaldehyde (CAS 50-00-0)	Special hazard.
----------------------------	-----------------

US. Massachusetts RTK - Substance List

Ethanol (CAS 64-17-5)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
m-Cresol (CAS 108-39-4)	Listed.
o-Cresol (CAS 95-48-7)	Listed.
p-Cresol (CAS 106-44-5)	Listed.
Phenol (CAS 108-95-2)	Listed.
Xylenol (CAS 1300-71-6)	Listed.

US. New Jersey Worker and Community Right-to-Know Act

Formaldehyde (CAS 50-00-0)	500 LBS
m-Cresol (CAS 108-39-4)	500 LBS
o-Cresol (CAS 95-48-7)	500 LBS
p-Cresol (CAS 106-44-5)	500 LBS
Phenol (CAS 108-95-2)	500 LBS

US. Pennsylvania RTK - Hazardous Substances

Ethanol (CAS 64-17-5)	Listed.
Formaldehyde (CAS 50-00-0)	Listed.
m-Cresol (CAS 108-39-4)	Listed.
o-Cresol (CAS 95-48-7)	Listed.
p-Cresol (CAS 106-44-5)	Listed.
Phenol (CAS 108-95-2)	Listed.
Xylenol (CAS 1300-71-6)	Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.
X - Specialized Handling

HMIS® ratings

Health: 3*
Flammability: 2
Physical hazard: 0
Personal protection: X

NFPA ratings

Health: 3
Flammability: 2
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.