# CHEMSERVICE.

# SAFETY DATA SHEET

### 1. Identification

1. Identification			
Product identifier	TCLP Semi-Volatiles Spiking	Mixture	
Other means of identification			
ltem	M-TCLP1SSB5		
Recommended use	For Laboratory Use Only		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Chem Service, Inc.		
Address	660 Tower Lane		
	West Chester, PA 19380 United States		
Telephone	Toll Free	800-452-9994	1
relephone	Direct	610-692-3026	
Website	www.chemservice.com		
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-3	887
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, inhalation		Category 4
	Serious eye damage/eye irritati	on	Category 2A
	Sensitization, respiratory		Category 1
	Sensitization, skin		Category 1
	Carcinogenicity		Category 1
	Reproductive toxicity		Category 1
	Specific target organ toxicity, si	ngle exposure	Category 3 narcotic effects
Environmental hazards	Hazardous to the aquatic environ hazard	onment, acute	Category 1
	Hazardous to the aquatic enviro	onment,	Category 1
OSHA defined hazards	Not classified.		

Label elements

Signal word Hazard statement

Highly flammable liquid and vapor. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Danger

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.
Response	If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	0.4% of the mixture consists of component(s) of unknown acute oral toxicity. 1% of the mixture consists of component(s) of unknown acute inhalation toxicity. 97.4% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 97.4% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

<b>/</b> ixtures			
Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	97.4
1,4-Dichlorobenzene		106-46-7	0.2
2,4,5-Trichlorophenol		95-95-4	0.2
2,4,6-Trichlorophenol		88-06-2	0.2
2,4-Dinitrotoluene		121-14-2	0.2
2-Methylphenol		95-48-7	0.2
3-Methylphenol	m-Cresol	108-39-4	0.2
4-Methylphenol		106-44-5	0.2
Hexachloro-1,3-butadiene		87-68-3	0.2
Hexachlorobenzene		118-74-1	0.2
Hexachloroethane		67-72-1	0.2
Nitrobenzene		98-95-3	0.2
Pentachlorophenol		87-86-5	0.2
Pyridine		110-86-1	0.2

### 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.
6 Accidental relaces man	

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.

### 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

**Conditions for safe storage, including any incompatibilities includin** 

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

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

Components	Туре	Value	
1,4-Dichlorobenzene (CAS 106-46-7)	PEL	450 mg/m3	
		75 ppm	
2,4-Dinitrotoluene (CAS 121-14-2)	PEL	1.5 mg/m3	
2-Methylphenol (CAS 95-48-7)	PEL	22 mg/m3	
		5 ppm	
3-Methylphenol (CAS 108-39-4)	PEL	22 mg/m3	
,		5 ppm	
4-Methylphenol (CAS 106-44-5)	PEL	22 mg/m3	
,		5 ppm	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Hexachloroethane (CAS 67-72-1)	PEL	10 mg/m3	
,		1 ppm	
Nitrobenzene (CAS 98-95-3)	PEL	5 mg/m3	
,		1 ppm	
Pentachlorophenol (CAS 87-86-5)	PEL	0.5 mg/m3	
Pyridine (CAS 110-86-1)	PEL	15 mg/m3	

Components	ontaminants (29 CFR 1910. Type	Value	
		5 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
1,4-Dichlorobenzene (CAS 106-46-7)	TWA	10 ppm	
2,4-Dinitrotoluene (CAS 121-14-2)	TWA	0.2 mg/m3	
2-Methylphenol (CAS 95-48-7)	TWA	20 mg/m3	Inhalable fraction and vapor.
3-Methylphenol (CAS 108-39-4)	TWA	20 mg/m3	Inhalable fraction and vapor.
4-Methylphenol (CAS 106-44-5)	TWA	20 mg/m3	Inhalable fraction and vapor.
Acetone (CAS 67-64-1)	STEL	750 ppm	·
	TWA	500 ppm	
Hexachloro-1,3-butadiene CAS 87-68-3)	TWA	0.02 ppm	
Hexachlorobenzene (CAS 118-74-1)	TWA	0.002 mg/m3	
Hexachloroethane (CAS 67-72-1)	TWA	1 ppm	
Nitrobenzene (CAS 98-95-3)	TWA	1 ppm	
Pentachlorophenol (CAS 37-86-5)	STEL	1 mg/m3	Inhalable fraction and vapor.
	TWA	0.5 mg/m3	Inhalable fraction and vapor.
Pyridine (CAS 110-86-1)	TWA	1 ppm	
US. NIOSH: Pocket Guide to Chemic	al Hazards		
Components	Туре	Value	
2,4-Dinitrotoluene (CAS  21-14-2)	TWA	1.5 mg/m3	
2-Methylphenol (CAS 95-48-7)	TWA	10 mg/m3	
		2.3 ppm	
3-Methylphenol (CAS	TWA	10 mg/m3	
108-39-4)		2.2 nnm	
4-Methylphenol (CAS	TWA	2.3 ppm 10 mg/m3	
106-44-5)		io my/mo	
		2.3 ppm	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Hexachloro-1,3-butadiene	TWA	0.24 mg/m3	
(CAS 87-68-3)		0.02 ppm	
Hexachloroethane (CAS	TWA	10 mg/m3	
67-72-1)	1 7 77 1	i o mg/mo	
		1 ppm	
Nitrobenzene (CAS	TWA	5 mg/m3	
98-95-3)		1	
		1 ppm	
	τ\λ/Α	0.5 ma/m3	
Pentachlorophenol (CAS	TWA	0.5 mg/m3	
	TWA TWA	0.5 mg/m3 15 mg/m3	

Components         Value         Determinant         Spectmen         Sampling Time           Acetone (CAS 07-64-1)         50 mg/l         Acetone         Unite demoglobin         *           *- for sampling details, please see the source document.         *         *         *         *           Exposure guidelines         Us - California OEL: sc kin designation         -         Can be absorbed through the skin.           2.4-Dinitrotoure (CAS 121-14-2)         Can be absorbed through the skin.         -         Can be absorbed through the skin.           3.Methylpheniol (CAS 108-33-4)         Can be absorbed through the skin.         -         Can be absorbed through the skin.           4.Methylpheniol (CAS 108-34-4)         Can be absorbed through the skin.         -         Can be absorbed through the skin.           Hexachlore-13-bulatiene (CAS 87-86-3)         Can be absorbed through the skin.         -         Can be absorbed through the skin.           VIS Minnesota Haz Subs: Skin designation applies.         -         Can be absorbed through the skin.         -           2.4-Dinitrotourene (CAS 121-14-2)         Skin designation applies.         -         -           2.4-Dinitrotourene (CAS 121-14-2)         Skin designation applies.         -         -           2.4-Dinitrotourene (CAS 121-14-2)         Skin designation applies.         -         - <th>ACGIH Biological Expos</th> <th></th> <th></th> <th></th> <th></th> <th></th>	ACGIH Biological Expos					
Nitroberzene (CAS         1.5 %         Methemoglobin         Hemoglobin           98-95-3)         * - For sampling details, please see the source document.           Exposure guidalinos         U         Can be absorbed through the skin.           2.4-Dinitrotoluene (CAS 121-14-2)         Can be absorbed through the skin.           2.4-Dinitrotoluene (CAS 108-34-4)         Can be absorbed through the skin.           3.Methylphenol (CAS 67-87-1)         Can be absorbed through the skin.           4.Methylphenol (CAS 67-87-1)         Can be absorbed through the skin.           Hexachlore-1.3-butadiane (CAS 87-86-3)         Can be absorbed through the skin.           Hexachlore-1.5-butadiane (CAS 67-72-1)         Can be absorbed through the skin.           Pentachlorophanel (CAS 118-74-1)         Can be absorbed through the skin.           US • Minnesota Haz 200-5 kin designation applies.         Skin designation applies.           2.4-Dinitrotoluene (CAS 10-47-1)         Skin designation applies.           3.Methylphenol (CAS 118-74-1)         Skin designation applies.           3.4Methylphenol (CAS 67-72-1)         Skin designation applies.           4.4-Methylphenol (CAS 67-72-1)         Skin designation applies.           4.4-Methylphenol (CAS 67-72-1)         Can be absorbed through the skin.           2.4-Dinitrotoluene (CAS 87-86-3)         Can be absorbed through the skin.		Value	Determinant	Specimen	Sampling Time	
98-95-3)       in blood         * - For sampling details, please see the source document.         Exposure guidelines         US - California OELs: Skin designation         2.4-Dimitrotolumer (CAS 121-14-2)       Can be absorbed through the skin.         3.Methylphenia (CAS 108-34-4)       Can be absorbed through the skin.         4.Methylphenia (CAS 108-44-5)       Can be absorbed through the skin.         Hexachloron 1.3-budginer (CAS 17.7-1)       Can be absorbed through the skin.         Hexachloroberzene (CAS 167.7-1)       Can be absorbed through the skin.         Hexachloroberzene (CAS 106.4-5)       Can be absorbed through the skin.         VIS - Minnesota Haz 20xb: Skin designation applies       Skin designation applies.         2.4-Dintrotolumen (CAS 107.7-1)       Skin designation applies.         2.4-Dintrotolumen (CAS 107.7-1)       Skin designation applies.         3.Methylphenol (CAS 106.3-4-5)       Skin designation applies.         3.Methylphenol (CAS 106.3-4-5)       Skin designation applies.         3.Methylphenol (CAS 106.4-6)       Skin designation applies.         4.Methylphenol (CAS 106.4-7-7-1)       Skin designation applies.         3.Methylphenol (CAS 107.4-1)       Skin designation applies.         3.Methylphenol (CAS 107.4-1)       Skin designation applies.         3.Methylphenol (CAS 106.4-6)       Can be absorbed thr	. ,	-			*	
Exposure guidalines         US - California OELs: Skin designation         2.4-Dinitroblauere (CAS 121-14-2)       Can be absorbed through the skin.         3.Methylphenol (CAS 106-38-4)       Can be absorbed through the skin.         4.Methylphenol (CAS 106-38-4)       Can be absorbed through the skin.         Hexachtoron-1.3-butationee (CAS 17-68-3)       Can be absorbed through the skin.         Hexachtoron-1.3-butationee (CAS 87-78-3)       Can be absorbed through the skin.         Hexachtoron-1.3-butationee (CAS 87-78-5)       Can be absorbed through the skin.         Netrobenzene (CAS 81-74-1)       Can be absorbed through the skin.         Netrobenzene (CAS 81-76-5)       Can be absorbed through the skin.         Pertachtorophenol (CAS 81-77-1)       Skin designation applies.         2.4-Dinitrobuere (CAS 112-14-2)       Skin designation applies.         3.Methylphenol (CAS 106-34-5)       Skin designation applies.         Metachtorothane (CAS 87-72-1)       Skin designation applies.         Metachtorothane (CAS 87-72-1)       Skin designation applies.         Nitrobenzene (CAS 187-72-1)       Skin designation applies.         Nitrobenzene (CAS 187-72-1)       Skin designation applies.         VENTORESENCELS: Skin designation       Skin designation applies.         2.4-Dinitrobluene (CAS 106-34-5)       Can be absorbed through the skin.	98-95-3)		· ·		*	
US - California OELs: Skin designation         2.4-Dinitrobluene (CAS 121-14-2)       Can be absorbed through the skin.         3.Methylphenol (CAS 108-39-4)       Can be absorbed through the skin.         4.Methylphenol (CAS 108-34-5)       Can be absorbed through the skin.         Hexachiorob-13.butadiene (CAS 187-72-1)       Can be absorbed through the skin.         Hexachiorobenzane (CAS 108-74-1)       Can be absorbed through the skin.         Hexachiorobenzane (CAS 19-63-5)       Can be absorbed through the skin.         Pertachiorobenzane (CAS 98-63.)       Can be absorbed through the skin.         VIS • Minosoth Ats 20bies Skin designation applies       Can be absorbed through the skin.         2.4-Dinitrobluene (CAS 118-74-1)       Skin designation applies.         3.Methylphenol (CAS 108-39-4)       Skin designation applies.         3.Methylphenol (CAS 108-39-4)       Skin designation applies.         4.4-Methylphenol (CAS 108-39-4)       Skin designation applies.         4.4-Methylphenol (CAS 108-72-1)       Skin designation applies.         VIS • Tennessee OELs: Skin designation       Skin designation applies.         2.4-Dinitrobluene (CAS 112-14-2)       Can be absorbed through the skin.         2.4-Dinitrobluene (CAS 114-14-2)       Can be absorbed through the skin.         2.4-Dinitrobluene (CAS 114-14-2)       Can be absorbed through the skin.         2.4	<ul> <li>For sampling details, p</li> </ul>	lease see the source of	document.			
2.4-Dinitrobleme (CAS 121-14-2)       Can be absorbed through the skin.         2.Methylphenol (CAS 108-39-4)       Can be absorbed through the skin.         4.Methylphenol (CAS 108-39-4)       Can be absorbed through the skin.         Hexachiorobenzane (CAS 172-14)       Can be absorbed through the skin.         Hexachiorobenzene (CAS 87-76-5)       Can be absorbed through the skin.         Network (CAS 87-76-5)       Can be absorbed through the skin.         Network (CAS 87-76-5)       Can be absorbed through the skin.         Pertachiorophenol (CAS 87-76-5)       Can be absorbed through the skin.         2.4-Dinitrobluere (CAS 121-14-2)       Skin designation applies.         2.4-Dinitrobluere (CAS 112-14-2)       Skin designation applies.         2.4-Dinitrobluere (CAS 116-34-7)       Skin designation applies.         3.Methylphenol (CAS 106-34-7)       Skin designation applies.         4.Methylphenol (CAS 106-34-7)       Skin designation applies.         Hexachioroebnane (CAS 117-72-1)       Skin designation applies.         Hexachioroebnane (CAS 106-34-5)       Skin designation applies.         J.4-Dinitrobluere (CAS 114-74-1)       Skin designation applies.         J.4-Dinitrobluere (CAS 108-39-4)       Can be absorbed through the skin.         3.Methylphenol (CAS 106-34-5)       Can be absorbed through the skin.         J.4-Dinitrobluere (CAS 108-39-4) <td>Exposure guidelines</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Exposure guidelines					
2-Methylphenol (CAS 96-88-7)       Can be absorbed through the skin.         4-Methylphenol (CAS 108-39-4)       Can be absorbed through the skin.         Hexachlorohenzzne (CAS 118-74-1)       Can be absorbed through the skin.         Hexachlorohenzzne (CAS 67-72-1)       Can be absorbed through the skin.         Nitrobenzene (CAS 67-72-1)       Can be absorbed through the skin.         Version (CAS 87-86-5)       Can be absorbed through the skin.         2-A-Dinitrobluene (CAS 17-86-5)       Can be absorbed through the skin.         2-A-Dinitrobluene (CAS 17-14-2)       Skin designation applies.         2-A-Dinitrobluene (CAS 118-74-1)       Skin designation applies.         3-Methylphenol (CAS 106-44-5)       Skin designation applies.         Hexachlorobenzene (CAS 118-74-1)       Skin designation applies.         Hexachlorobenzene (CAS 118-74-1)       Skin designation applies.         Y-Mintrobuezene (CAS 106-39-4)       Skin designation applies.         2-A-Dinitrobuezene (CAS 172-17)       Skin designation applies.         2-A-Dinitrobuezene (CAS 172-17)       Skin designation applies.         3-Methylphenol (CAS 108-39-4)       Can be absorbed through the skin.         2-A-Dinitrobuezene (CAS 108-39-4)       Can be absorbed through the skin.         2-A-Dinitrobuezene (CAS 172-1)       Can be absorbed through the skin.         3-Methylphenol (CAS 108-34-5)	US - California OELs: Sł	kin designation				
3-Methylphenol (CAS 108-39-4)       Can be absorbed through the skin.         4-Methylphenol (CAS 108-44-5)       Can be absorbed through the skin.         Hexachloro-1.3-butadiene (CAS 87-88-3)       Can be absorbed through the skin.         Hexachloro-1.3-butadiene (CAS 87-88-3)       Can be absorbed through the skin.         Nitrobenzene (CAS 98-98-3)       Can be absorbed through the skin.         Pentachlorophenol (CAS 97-86-5)       Can be absorbed through the skin.         US       Minnesota Haz Subs: Skin designation applies.         2.4-Dinitrotoluren (CAS 112-14-2)       Skin designation applies.         3.4 Methylphenol (CAS 97-86-5)       Skin designation applies.         3.4 Methylphenol (CAS 108-39-4)       Skin designation applies.         4.4 Methylphenol (CAS 108-39-4)       Skin designation applies.         Hexachlorochanzen (CAS 11-7-1)       Skin designation applies.         Nitrobenzene (CAS 98-95-3)       Skin designation applies.         VIEV Stander (CAS 108-39-4)       Can be absorbed through the skin.         2.4-Dinitrotoluren (CAS 108-44-5)       Can be absorbed through the skin.         3.4 Methylphenol (CAS 108-44-5)       Can be absorbed through the skin.         4.4 Methylphenol (CAS 108-44-5)       Can be absorbed through the skin.         2.4-Dinitrotoluren (CAS 108-44-5)       Can be absorbed through the skin.         3.4 Methyl	2,4-Dinitrotoluene (C	AS 121-14-2)	Can be	absorbed throug	gh the skin.	
4-Methylphenol (CAS 106-44-5)       Can be absorbed through the skin.         Hexachloro-1.3-buildaiene (CAS 87-68-3)       Can be absorbed through the skin.         Hexachlorobenzene (CAS 918-72-1)       Can be absorbed through the skin.         Nitroberzene (CAS 90-95-3)       Can be absorbed through the skin.         US - Minnesotal Haz Subs: Skin designation applies.       Can be absorbed through the skin.         2.4-Dinitrobluene (CAS 118-74-1)       Skin designation applies.         2.4-Dinitrobluene (CAS 118-39-4)       Skin designation applies.         3.Methylphenol (CAS 108-39-4)       Skin designation applies.         4.Methylphenol (CAS 118-74-1)       Skin designation applies.         Hexachlorobetzene (CAS 98-95-3)       Skin designation applies.         Virboerzene (CAS 98-95-3)       Skin designation applies.         US - Tonnesseo DELs: Skin designation       Skin designation applies.         2.4-Dinitrobluene (CAS 121-14-2)       Can be absorbed through the skin.         2.4-Dinitrobluene (CAS 121-14-2)       Can be absorbed through the skin.         2.4-Dinitrobluene (CAS 168-44-5)       Can be absorbed through the skin.         2.4-Dinitrobluene (CAS 168-72-1)       Can be absorbed through the skin.         3-Methylphenol (CAS 98-68-7)       Can be absorbed through the skin.         4.4-Methylphenol (CAS 97-81-72)       Can be absorbed through the skin.	2-Methylphenol (CAS	S 95-48-7)			5	
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Pentachlorophenol (CAS 87-86-5)Can be absorbed through the skin.US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)2,4-Dinitrotoluene (CAS 121-14-2)Can be absorbed through the skin.2-Methylphenol (CAS 95-48-7)Can be absorbed through the skin.3-Methylphenol (CAS 108-39-4)Can be absorbed through the skin.4-Methylphenol (CAS 106-44-5)Can be absorbed through the skin.Hexachloroethane (CAS 67-72-1)Can be absorbed through the skin.Nitrobenzene (CAS 98-95-3)Can be absorbed through the skin.						
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	Hexachloroethane (C	AS 67-72-1)	Can be	absorbed through	gh the skin.	
Pentachlorophenol (CAS 87-86-5) Can be absorbed through the skin.					-	
	Pentachlorophenol (C	CAS 87-86-5)	Can be	absorbed throug	gh the skin.	

**Biological limit values** 

Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.
Individual protection measures	, such as personal protective equipment
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Keep away from food and drink. 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. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

••••••••••••••••••••••••••••••••••••••	
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-138.46 °F (-94.7 °C) estimated
Initial boiling point and boiling range	132.89 °F (56.05 °C) estimated
Flash point	-4.0 °F (-20.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2.6 % estimated
Flammability limit - upper (%)	12.8 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	309.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	869 °F (465 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.80417 g/cm3 estimated
Explosive properties	Not explosive.

Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	98.2 % estimated
Specific gravity	0.8 estimated
VOC (Weight %)	99 % estimated

### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Toxic gas.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.

#### Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful if swallowed. Narcotic effects. May cause an allergic skin reaction.

Components	Species	Test Results
1,4-Dichlorobenzene (CAS 106-46-7	")	
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	> 5.07 mg/l, 4 Hours
Oral		
LD50	Rabbit	2830 mg/kg
	Rat	3790 mg/kg
2,4,5-Trichlorophenol (CAS 95-95-4)	)	
Acute		
Oral		
LD50	Rat	820 mg/kg
		0.82 g/kg
2,4,6-Trichlorophenol (CAS 88-06-2)		
<u>Acute</u>		
Oral		
LD50	Rat	820 mg/kg
2,4-Dinitrotoluene (CAS 121-14-2)		
Acute		
Dermal		
LD50	Rat	> 2500 mg/kg, Hours

Components	Species	Test Results
Inhalation		
Vapor or aerosol	- /	
LC50	Rat	0.24 mg/l
Oral	Maura	750
LD50	Mouse	750 mg/kg
TD	Rat	270 mg/kg
TD	Dog	1 mg/kg
2-Methylphenol (CAS 95-48-7	r)	
<u>Acute</u> Dermal		
LD50	Mouse	620 mg/kg
LDOO	Rabbit	1380 mg/kg
	Rat	620 mg/kg
Inhalation LC50	Mouse	
	Mouse	0.179 mg/l, 2 Hours
Oral LD50	Rabbit	1800 mg/kg
LDOO	Rat	121 mg/kg
2 Mathulahanal (CAC 402 CC		12 I Hig/Kg
3-Methylphenol (CAS 108-39-	-4)	
<u>Acute</u> Dermal		
LD50	Rabbit	2050 mg/kg
2000	Rat	1100 mg/kg
Oral	Nat	1 too hig/kg
LD50	Rabbit	1400 mg/kg
2000	Rat	242 mg/kg
4-Methylphenol (CAS 106-44-		
<u>Acute</u>	-5)	
Dermal		
LD50	Rabbit	300 mg/kg
Oral		
LD50	Rabbit	620 mg/kg
	Rat	207 mg/kg
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
LC50	Rat	76 mg/l, 4 Hours
Vapor		
,	_	
LC50	Rat	50.1 mg/l

Components	Species	Test Results
Oral	Maura	
LD50	Mouse	5.2 g/kg
	Rat	5800 mg/kg
Llevenhlere 1.2 hutediane (		2.2 ml/kg
Hexachloro-1,3-butadiene ( Acute	CAS 87-68-3)	
Dermal		
LD50	Rabbit	1211 mg/kg
Oral		
LD50	Guinea pig	90 mg/kg
	Hamster	960 mg/kg
	Mouse	46 mg/kg
	Rat	90 mg/kg
Hexachlorobenzene (CAS	118-74-1)	
Acute		
Oral		
LD50	Cat	1700 mg/kg
	Mouse	4000 mg/kg
	Rabbit	2600 mg/kg
	Rat	3500 mg/kg
Hexachloroethane (CAS 67	/-72-1)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 32000 mg/kg
Oral		1070
LD50	Guinea pig	4970 mg/kg
	Rat	4460 mg/kg
Nitrobenzene (CAS 98-95-3	3)	
<u>Acute</u> Dormol		
<b>Dermal</b> LD50	Rabbit	760 mg/kg, 24 Hours
LDOU	Rat	2100 mg/kg, 14 Days
Oral		2100 mg/kg, 14 Days
LD50	-	640 mg/kg
	Rat	588 mg/kg
Pentachlorophenol (CAS 87		
Acute	,	
Dermal		
LD50	Rat	96 mg/kg
Oral		
LD50	Rat	146 mg/kg
Pyridine (CAS 110-86-1)		
Acute		
Dermal	5.11.7	
LD50	Rabbit	1000 - 2000 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i> LC50	Pat	
LC30	Rat	9010 ppm, 1 Hours
		5400 ppm, 4 Hours

Components	Species	Test Results	
LD50	Rat	9000 ppm, 1 Hours	
Oral			
LD50	-	1500 mg/kg	
	Guinea pig	4000 mg/kg	
	Mouse	0.8 g/kg	
	Rat	800 - 1600 mg/kg	
		0.8 g/kg	
* Estimates for product may b	be based on additional compone	nt data not shown.	
Skin corrosion/irritation	Prolonged skin contact may c	ause temporary irritation.	
Serious eye damage/eye rritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	n		
<b>Respiratory sensitization</b>	May cause allergy or asthma	symptoms or breathing difficulties if inhaled.	
Skin sensitization	May cause an allergic skin rea	action.	
Germ cell mutagenicity	No data available to indicate province mutagenic or genotoxic.	product or any components present at greater than 0.	1% are
Carcinogenicity	May cause cancer.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
1,4-Dichlorobenzene (C/ 2,4,6-Trichlorophenol (C Hexachlorobenzene (CA Hexachloroethane (CAS Nitrobenzene (CAS 98-9 <b>US. OSHA Specifically Reg</b> Not listed.	121-14-2) le (CAS 87-68-3) S 118-74-1) 67-72-1) 5-3) ogram (NTP) Report on Carcin AS 106-46-7) AS 88-06-2) S 118-74-1) 67-72-1) 5-3) ulated Substances (29 CFR 19	Reasonably Anticipated to be a Human Carcinogen Reasonably Anticipated to be a Human Carcinogen <b>10.1001-1050</b> )	1. 1. 1.
Reproductive toxicity	May damage fertility or the un	born child.	
Specific target organ toxicity - single exposure	May cause drowsiness and di	zziness.	
Specific target organ toxicity - epeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be	harmful. Prolonged exposure may cause chronic effect	cts.
12. Ecological information	n		
Ecotoxicity	Very toxic to aquatic life with I	ong lasting effects.	
Components	Species	Test Results	
1,4-Dichlorobenzene (CAS 1 Aquatic			
Crustacea	EC50 Water flea (Da	aphnia magna) 0.0007 mg/l, 48 hours	

Rainbow trout, donaldson trout

(Oncorhynchus mykiss)

LC50

Fish

1.12 mg/l, 96 hours

Components		Species	Test Results
2,4,5-Trichlorophenol (CAS	S 95-95-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.72 - 1.2 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.39 - 0.54 mg/l, 96 hours
2,4,6-Trichlorophenol (CAS	S 88-06-2)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.8 - 2.6 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.35 - 0.49 mg/l, 96 hours
2,4-Dinitrotoluene (CAS 12	21-14-2)		
Aquatic	5050		
Crustacea	EC50	Water flea (Daphnia magna)	22.5 - 30.5 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	10 - 60 mg/l, 96 hours
2-Methylphenol (CAS 95-4	8-7)		
Aquatic	5050		45.0 // 40.1
Crustacea	EC50	Water flea (Daphnia magna)	15.8 mg/l, 48 hours
Fish	LC50	lde, silver or golden orfe (Leuciscus idus)	10 mg/l, 96 hours
B-Methylphenol (CAS 108-	-39-4)		
Aquatic			
Crustacea	EC50	Scud (Gammarus fasciatus)	7 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.9 mg/l, 96 hours
-Methylphenol (CAS 106-	-44-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 mg/l, 48 hours
Fish	LC50	Fish (Lepidocephalichthyes guntea)	6.15 - 7.96 mg/l, 96 hours
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Hexachloro-1,3-butadiene	(CAS 87-68-3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	0.09 - 0.11 mg/l, 96 hours
Hexachlorobenzene (CAS	118-74-1)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1 mg/l, 96 hours
Hexachloroethane (CAS 6	7-72-1)		
Aquatic	<b>F</b> 0-0		4.0.04 "
Crustacea	EC50	Water flea (Daphnia magna)	1.6 - 2.1 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.73 - 1.28 mg/l, 96 hours
Nitrobenzene (CAS 98-95-	-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	25.6 - 42 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	36 - 49 mg/l, 96 hours
Pentachlorophenol (CAS 8	87-86-5)		
Aquatic	5050		0.070 0.075 # 151
Crustacea	EC50	Water flea (Daphnia magna)	0.273 - 0.375 mg/l, 48 hours
Fish	LC50	Atlantic salmon (Salmo salar)	0.042 - 0.083 mg/l, 96 hours

Components		Species	Test Results
Pyridine (CAS 110-86-1)			
Aquatic			
Fish	LC50	Chum salmon (Oncorhynchus keta)	3.7 mg/l, 96 hours
* Estimates for product may	be based on	additional component data not shown.	
rsistence and degradability	No data is	s available on the degradability of this produce	ct.
accumulative potential			
Partition coefficient n-octa	nol / water (	log Kow)	
1,4-Dichlorobenzene		3.44	
2,4,5-Trichlorophenol		3.72	
2,4,6-Trichlorophenol		3.69	
2,4-Dinitrotoluene		1.98	
2-Methylphenol		1.95	
3-Methylphenol		1.96	
4-Methylphenol		1.94	
Acetone		-0.24	
Hexachloro-1,3-butadiene		4.78	
Hexachlorobenzene		5.73	
Hexachloroethane		4.14	
Nitrobenzene		1.85	
Pentachlorophenol		5.12	
Pyridine		0.65	
bility in soil	No data a	vailable.	
ner adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

DOT	
UN number	UN1090
UN proper shipping name	Acetone, solution (Acetone RQ = 5133 LBS) (Nitrobenzene)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	Ш
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T4, TP1
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1090
UN proper shipping name	Acetone solution (Acetone)

Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	3H
	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1090
UN proper shipping name	ACETONE SOLUTION (Acetone)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	
FLAMMABLE	





**General information** 

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

### 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)

2,4,5-Trichlorophenol (CAS 95-95-4) CERCLA Hazardous Substance List (40 CFR 302.4)	0.1 % One-Time Export Notification only.
2,4,5-Trichlorophenol (CAS 95-95-4)	Listed.
2,4,6-Trichlorophenol (CAS 88-06-2)	Listed.
2,4-Dinitrotoluene (CAS 121-14-2)	Listed.
2-Methylphenol (CAS 95-48-7)	Listed.
3-Methylphenol (CAS 108-39-4)	Listed.

4-Methylphenol (CAS 106-44-5)			Listed.									
Acetone (CAS 67-64-1)			Listed.									
Hexachloro-1,3-butadiene (CAS 87-68-3)			Listed.									
Hexachlorobenzene (CAS 118-74-1) Hexachloroethane (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pentachlorophenol (CAS 87-86-5)			Listed. Listed. Listed. Listed.									
						Pyridine (CAS 110	Pyridine (CAS 110-86-1)			Listed.		
						SARA 304 Emergency	release notification	on				
						2-Methylphenol (C	AS 95-48-7)		100 LBS			
Nitrobenzene (CAS			1000 LBS									
US. OSHA Specifically		ances (29 CFR	1910.1001-1050)									
Not listed.		·										
Superfund Amendments a	nd Deputherizatio	m A at af 1096 /6										
Hazard categories	Immediate	Hazard - Yes										
	Fire Hazard	azard - Yes										
	Pressure H											
		Hazard - No										
SADA 202 Extremely	-											
SARA 302 Extremely			<b>_</b>	<b>_</b>								
Chemical name	CAS number	Reportable	Threshold	Threshold	Threshold							
		quantity	planning quantity	planning quantity, lower value	planning quantity,							
	05 40 7	400			upper value							
2-Methylphenol	95-48-7	100	10000 lba	1000 lbs	10000 lbs							
Nitrobenzene	98-95-3	1000	10000 lbs									
SARA 311/312 Hazard chemical	ous No											
SARA 313 (TRI reporti Chemical name	ng)		CAS number	% by wt.								
1,4-Dichlorobenzer			106-46-7	0.2								
· · · · ·	2,4,6-Trichlorophenol		88-06-2 121-14-2	0.2								
2,4-Dinitrotoluene Hexachlorobenzene		121-14-2 118-74-1	0.2 0.2									
Hexachloroethane		67-72-1	0.2									
Nitrobenzene		98-95-3	0.2									
Pentachlorophenol			90-95-5 87-86-5	0.2								
•			07-00-0	0.2								
Other federal regulations												
Clean Air Act (CAA) S	ection 112 Hazard	ous Air Polluta	nts (HAPs) List									
1,4-Dichlorobenzer	ne (CAS 106-46-7)											
2,4,5-Trichloropher	nol (CAS 95-95-4)											
2,4,6-Trichloropher	nol (CAS 88-06-2)											
2,4-Dinitrotoluene	2,4-Dinitrotoluene (CAS 121-14-2)											
2-Methylphenol (C												
3-Methylphenol (C	,											
4-Methylphenol (C												
Hexachloro-1,3-but		-3)										
Hexachlorobenzen												
Hexachloroethane												
Nitrobenzene (CAS												
Pentachlorophenol	· /											
Clean Air Act (CAA) S	ection 112(r) Accie	dental Release	Prevention (40 CFR 68	8.130)								
Not regulated.												
Safe Drinking Water A (SDWA)	ct Not regulat	ed.										
		DEA). List 2, Es	sential Chemicals (21	CFR 1310.02(b) and 1	310.04(f)(2) and							
Acetone (CAS			6532									
		NFA)   jet 1 & 2		xtures (21 CFR 1310.1	2(c))							
					-(-//							
Acetone (CAS	07-04-1)		35 %WV									

#### **DEA Exempt Chemical Mixtures Code Number**

Acetone (CAS 67-64-1)

6532

### US state regulations

#### US - New Jersey RTK - Substances: Listed substance

1,4-Dichlorobenzene (CAS 106-46-7) 2,4,5-Trichlorophenol (CAS 95-95-4) 2,4,6-Trichlorophenol (CAS 88-06-2) 2,4-Dinitrotoluene (CAS 121-14-2) 2-Methylphenol (CAS 95-48-7) 3-Methylphenol (CAS 108-39-4) 4-Methylphenol (CAS 106-44-5) Acetone (CAS 67-64-1) Hexachloro-1,3-butadiene (CAS 87-68-3) Hexachlorobenzene (CAS 118-74-1) Hexachloroethane (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pentachlorophenol (CAS 87-86-5) Pyridine (CAS 110-86-1)

#### US - Pennsylvania RTK - Hazardous Substances: Special hazard

1,4-Dichlorobenzene (CAS 106-46-7) 2,4,5-Trichlorophenol (CAS 95-95-4) 2,4,6-Trichlorophenol (CAS 88-06-2) Hexachlorobenzene (CAS 118-74-1) Pentachlorophenol (CAS 87-86-5)

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
  - 1,4-Dichlorobenzene (CAS 106-46-7) 2,4,6-Trichlorophenol (CAS 88-06-2) 2,4-Dinitrotoluene (CAS 121-14-2) 2-Methylphenol (CAS 95-48-7) 3-Methylphenol (CAS 108-39-4) 4-Methylphenol (CAS 106-44-5) Acetone (CAS 67-64-1) Hexachloro-1,3-butadiene (CAS 87-68-3) Hexachloroethane (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pyridine (CAS 110-86-1)

### US. Massachusetts RTK - Substance List

1,4-Dichlorobenzene (CAS 106-46-7) 2,4,5-Trichlorophenol (CAS 95-95-4) 2,4,6-Trichlorophenol (CAS 88-06-2) 2,4-Dinitrotoluene (CAS 121-14-2) 2-Methylphenol (CAS 95-48-7) 3-Methylphenol (CAS 108-39-4) 4-Methylphenol (CAS 106-44-5) Acetone (CAS 67-64-1) Hexachloro-1,3-butadiene (CAS 87-68-3) Hexachlorobenzene (CAS 118-74-1) Hexachlorobenzene (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pentachlorophenol (CAS 87-86-5) Pyridine (CAS 110-86-1)

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

1,4-Dichlorobenzene (CAS 106-46-7) 2,4,5-Trichlorophenol (CAS 95-95-4) 2,4,6-Trichlorophenol (CAS 88-06-2) 2,4-Dinitrotoluene (CAS 121-14-2) 2-Methylphenol (CAS 95-48-7) 3-Methylphenol (CAS 108-39-4) 4-Methylphenol (CAS 106-44-5) Hexachloro-1,3-butadiene (CAS 87-68-3) Hexachlorobenzene (CAS 118-74-1) Hexachloroethane (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pentachlorophenol (CAS 87-86-5) Pyridine (CAS 110-86-1)

### US. Pennsylvania RTK - Hazardous Substances

1,4-Dichlorobenzene (CAS 106-46-7) 2,4,5-Trichlorophenol (CAS 95-95-4) 2,4,6-Trichlorophenol (CAS 88-06-2) 2,4-Dinitrotoluene (CAS 121-14-2) 2-Methylphenol (CAS 95-48-7) 3-Methylphenol (CAS 108-39-4) 4-Methylphenol (CAS 106-44-5) Acetone (CAS 67-64-1) Hexachloro-1,3-butadiene (CAS 87-68-3) Hexachlorobenzene (CAS 118-74-1) Hexachloroethane (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pentachlorophenol (CAS 87-86-5) Pyridine (CAS 110-86-1)

#### US. Pennsylvania Worker and Community Right-to-Know Law

1,4-Dichlorobenzene (CAS 106-46-7) 2,4,5-Trichlorophenol (CAS 95-95-4) 2,4,6-Trichlorophenol (CAS 88-06-2) 2,4-Dinitrotoluene (CAS 121-14-2) 2-Methylphenol (CAS 95-48-7) 3-Methylphenol (CAS 108-39-4) 4-Methylphenol (CAS 106-44-5) Acetone (CAS 67-64-1) Hexachloro-1,3-butadiene (CAS 87-68-3) Hexachlorobenzene (CAS 118-74-1) Hexachlorobenzene (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pentachlorophenol (CAS 87-86-5) Pyridine (CAS 110-86-1)

#### US. Rhode Island RTK

1,4-Dichlorobenzene (CAS 106-46-7) 2,4,5-Trichlorophenol (CAS 95-95-4) 2,4,6-Trichlorophenol (CAS 88-06-2) 2,4-Dinitrotoluene (CAS 121-14-2) 2-Methylphenol (CAS 95-48-7) 3-Methylphenol (CAS 108-39-4) 4-Methylphenol (CAS 106-44-5) Acetone (CAS 67-64-1) Hexachloro-1,3-butadiene (CAS 87-68-3) Hexachlorobenzene (CAS 118-74-1) Hexachlorobenzene (CAS 67-72-1) Nitrobenzene (CAS 98-95-3) Pentachlorophenol (CAS 87-86-5) Pyridine (CAS 110-86-1)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Listed: January 1, 1989 1,4-Dichlorobenzene (CAS 106-46-7) 2,4,6-Trichlorophenol (CAS 88-06-2) Listed: January 1, 1988 2,4-Dinitrotoluene (CAS 121-14-2) Listed: July 1, 1988 Hexachloro-1.3-butadiene (CAS 87-68-3) Listed: May 3, 2011 Hexachlorobenzene (CAS 118-74-1) Listed: October 1, 1987 Hexachloroethane (CAS 67-72-1) Listed: July 1, 1990 Nitrobenzene (CAS 98-95-3) Listed: August 26, 1997 Pentachlorophenol (CAS 87-86-5) Listed: January 1, 1990 Pyridine (CAS 110-86-1) Listed: May 17, 2002

US - California Propo	sition 65 - CRT: Listed dat	te/Developmental toxin		
Hexachlorobenze	Listed: January 1, 1989			
US - California Propo	sition 65 - CRT: Listed dat	te/Female reproductive toxin		
2,4-Dinitrotoluene	Listed: August 20, 1999			
US - California Propo	sition 65 - CRT: Listed dat	te/Male reproductive toxin		
2,4-Dinitrotoluene (CAS 121-14-2) Nitrobenzene (CAS 98-95-3)		Listed: August 20, 1999 Listed: March 30, 2010		
International Inventories				
Country(s) or region	Inventory name	Inventory name		
Australia	Australian Inventory of Chemical Substances (AICS)			
Canada	Domostia Substanses I	Demostia Substances List (DSL)		

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

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	09-03-2014
Revision date	10-20-2016
Version #	02
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
Disclaimer	The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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	This product is furnished FOR LABORATORY USE ONLY.
<b>Revision Information</b>	This document has undergone significant changes and should be reviewed in its entirety.