SAFETY DATA SHEET



1. Identification

Product identifier TCLP Acids Mixture

Other means of identification

M-TCLP1AM4

Recommended use For Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chem Service, Inc. 660 Tower Lane **Address**

West Chester, PA 19380

United States

Toll Free 800-452-9994 **Telephone** Direct

610-692-3026

Website www.chemservice.com E-mail info@chemservice.com

Emergency phone number Chemtrec US 800-424-9300

Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards Flammable liquids Category 2 Health hazards Acute toxicity, oral Category 3 Acute toxicity, dermal Category 3 Acute toxicity, inhalation Category 3 Serious eye damage/eye irritation Category 2A Sensitization, respiratory Category 1 Sensitization, skin Category 1 Carcinogenicity Category 2 Reproductive toxicity Category 1 Specific target organ toxicity, single exposure Category 1 Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word

Hazard statement Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Category 3

Material name: TCLP Acids Mixture SDS US

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. Use only outdoors or in a well-ventilated area. 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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response

If swallowed: Immediately call a poison center/doctor. 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. Call a poison center/doctor. Specific treatment (see this label). 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. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.

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

0.2% of the mixture consists of component(s) of unknown acute dermal toxicity. 99.4% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.4% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	>99
2,4,5-Trichlorophenol		95-95-4	0.1
2,4,6-Trichlorophenol		88-06-2	0.1
2-Methylphenol		95-48-7	0.1
3-Methylphenol		108-39-4	0.1
4-Methylphenol		106-44-5	0.1
Pentachlorophenol		87-86-5	0.1

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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. Call a POISON CENTER or doctor/physician.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. 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

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. May cause allergic respiratory reaction. Prolonged exposure may cause chronic effects.

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. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 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
General fire hazards

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

Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. 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.

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. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. 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. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

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

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

US. OSHA Table 7-1 Limits for Air Contaminants (29 CFR 1910.1000)

Occupational exposure limits

Components	Туре	Value	
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	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
Pentachlorophenol (CAS 87-86-5)	PEL	0.5 mg/m3	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
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.
Methanol (CAS 67-56-1)	STEL	250 ppm	•
	TWA	200 ppm	
Pentachlorophenol (CAS 87-86-5)	TWA	0.5 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
2-Methylphenol (CAS 95-48-7)	TWA	10 mg/m3	
·		2.3 ppm	
3-Methylphenol (CAS 108-39-4)	TWA	10 mg/m3	

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US.	NIOSH:	Pocket	Guide to	Chemical	Hazards

Components	Туре	Value	
		2.3 ppm	
4-Methylphenol (CAS 106-44-5)	TWA	10 mg/m3	
ŕ		2.3 ppm	
Methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	
	TWA	260 mg/m3	
		200 ppm	
Pentachlorophenol (CAS 87-86-5)	TWA	0.5 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*	
Pentachlorophenol (CAS 87-86-5)	2 mg/g	Total PCP	Creatinine in urine	*	
	5 mg/l	Free PCP	Plasma	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

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.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Pentachlorophenol (CAS 87-86-5)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Methylphenol (CAS 95-48-7)	Skin designation applies.
3-Methylphenol (CAS 108-39-4)	Skin designation applies.
4-Methylphenol (CAS 106-44-5)	Skin designation applies.
Methanol (CAS 67-56-1)	Skin designation applies.

US - Tennesse OELs: Skin designation

2-Methylphenol (CAS 95-48-7)	Can be absorbed through the skin.
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3-Methylphenol (CAS 108-39-4)	Can be absorbed through the skin.
4-Methylphenol (CAS 106-44-5)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Pentachlorophenol (CAS 87-86-5)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

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.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.
Pentachlorophenol (CAS 87-86-5)	Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Methanol (CAS 67-56-1)	Can be absorbed through the skin.
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-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.
Pentachlorophenol (CAS 87-86-5)	Can be absorbed through the skin.

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.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear eye/face protection. Wear a full-face respirate
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Skin protection

Hand protectionWear appropriate chemical resistant gloves.OtherWear appropriate chemical resistant clothing.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA).

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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. Liquid Form

Not available. Color Odor Not available. Not available. Odor threshold Not available. pН

-144.04 °F (-97.8 °C) estimated Melting point/freezing point 148.46 °F (64.7 °C) estimated Initial boiling point and boiling

range

Flash point 53.6 °F (12.0 °C) estimated

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

7.3 % estimated

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

169.3 hPa estimated Vapor pressure

Vapor density Not available. Not available Relative density

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

867.2 °F (464 °C) estimated **Auto-ignition temperature**

Not available. **Decomposition temperature** Not available. **Viscosity**

Other information

0.790026 g/cm3 estimated Density Flammability class Flammable IB estimated

99.6 % estimated Percent volatile 0.79 estimated Specific gravity VOC (Weight %) 99.6 % 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 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.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

Toxic gas.

products

reactions

11. Toxicological information

Information on likely routes of exposure

Toxic if swallowed Ingestion

Inhalation Toxic by inhalation. May cause damage to organs by inhalation. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

Skin contact Toxic in contact with skin. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an

allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

Toxic by inhalation. Toxic if swallowed. Toxic in contact with skin. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Expected to

be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results	
2,4,5-Trichlorophenol (CAS	95-95-4)		
Acute			
Oral			
LD50	Rat	820 mg/kg	
		0.82 g/kg	
Other			
LD50	Rat	355 mg/kg	
2,4,6-Trichlorophenol (CAS	88-06-2)		
Acute			
Oral	_		
LD50	Rat	820 mg/kg	
Other			
LD50	Rat	276 mg/kg	
2-Methylphenol (CAS 95-48	3-7)		
Acute			
Dermal	Mayoo	620 mg/kg	
LD50	Mouse	620 mg/kg	
	Rabbit	890 mg/kg	
	Rat	620 mg/kg	
Inhalation	M	0.470	
LC50	Mouse	0.179 mg/l, 2 Hours	
		0.178 mg/l	
	Rat	> 20 mg/l, 6 Hours	
		> 1.22 mg/l, 1 Hours	
Oral			
LD50	Mouse	344 mg/kg	
	Rabbit	800 mg/kg	
	Rat	121 mg/kg	
Other			
LD50	Mouse	350 mg/kg	
	Rabbit	180 mg/kg	
3-Methylphenol (CAS 108-3	39-4)		
Acute			
Dermal			
LD50	Rabbit	1860 mg/kg	
	Rat	1100 mg/kg	
Inhalation			
LC50	Rat	> 0.71 mg/l, 1 Hours	
		58 mg/m3	
Oral			
LD50	Mouse	828 mg/kg	
	Rabbit	1400 mg/kg	

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Components	Species	Test Results
	Rat	242 mg/kg
Other		
LD50	Mouse	168 mg/kg
	Rabbit	280 mg/kg
I-Methylphenol (CAS 106-44	l-5)	
Acute		
Dermal		
LD50	Rabbit	300 mg/kg
	Rat	750 mg/kg
Inhalation		
LC50	Rat	> 0.71 mg/l, 1 Hours
		0.029 mg/l
Oral		
LD50	Mouse	344 mg/kg
	Rabbit	620 mg/kg
	Rat	207 mg/kg
Other		
LD50	Rabbit	180 mg/kg
Methanol (CAS 67-56-1)		
Acute		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
LC50	Mouse	79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours
		64000 ppm, 4 Hours
		82.1 mg/l, 6 Hours
Oral		
LD50	Monkey	6000 mg/kg
	Mouse	7300 mg/kg
	Pig	> 5000 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
Other		55_5
LD50	Guinea pig	3556 mg/kg
	Hamster	8555 mg/kg
	Mouse	4100 mg/kg
	Rabbit	1826 mg/kg
2	Rat	2131 mg/kg
Pentachlorophenol (CAS 87-	ბ ნ-ნ)	
Acute Dermal		
Dermai LD50	Rat	96 mg/kg
Oral	· · · · ·	oo mgmg
LD50	Rat	146 mg/kg
LDOU	ixat	170 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Respiratory sensitization

May cause an allergic skin reaction. Skin sensitization

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,4,5-Trichlorophenol (CAS 95-95-4)
2,4,6-Trichlorophenol (CAS 88-06-2)
2,4,6-Trichlorophenol (CAS 87-86-5)
2B Possibly carcinogenic to humans.
2B Possibly carcinogenic to humans.
2B Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

2,4,6-Trichlorophenol (CAS 88-06-2) Reasonably Anticipated to be a Human Carcinogen.

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

Not listed.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity -

single exposure

Causes damage to organs.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated

exposure.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components		Species	Test Results
2,4,5-Trichlorophenol	(CAS 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 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-Methylphenol (CAS	95-48-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	15.8 mg/l, 48 hours
Fish	LC50	Ide, silver or golden orfe (Leuciscus idus)	10 mg/l, 96 hours
3-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
4-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
Methanol (CAS 67-56-	-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Pentachlorophenol (Ca	AS 87-86-5)		
Aquatic			
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

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

 2,4,5-Trichlorophenol
 3.72

 2,4,6-Trichlorophenol
 3.69

 2-Methylphenol
 1.95

 3-Methylphenol
 1.96

 4-Methylphenol
 1.94

 Methanol
 -0.77

 Pentachlorophenol
 5.12

Mobility in soil No data available.

Other 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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. 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.

US RCRA Hazardous Waste U List: Reference

 2-Methylphenol (CAS 95-48-7)
 U052

 3-Methylphenol (CAS 108-39-4)
 U052

 4-Methylphenol (CAS 106-44-5)
 U052

 Methanol (CAS 67-56-1)
 U154

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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1230

UN proper shipping name Methanol, solution

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP2

Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN1230

UN proper shipping name Methanol solution

Transport hazard class(es)

Class 3

Subsidiary risk 6.1(PGI, II)

Packing group II
Environmental hazards No.
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

. toda carety mediacione, e z e and emergency procedures zeroic manami

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

IMDG

UN number UN1230

UN proper shipping name METHANOL SOLUTION

Transport hazard class(es)

Class 3

Subsidiary risk 6.1(PGI, II)

Packing group

Environmental hazards

Marine pollutant No. EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not available.

the IBC Code

DOT



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

2,4,5-Trichlorophenol (CAS 95-95-4)

0.1 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed.
Listed.

SARA 304 Emergency release notification

2-Methylphenol (CAS 95-48-7) 100 LBS US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
2-Methylphenol	95-48-7	100		1000 lbs	10000 lbs

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Methanol	67-56-1	>99	
2,4,6-Trichlorophenol	88-06-2	0.1	
Pentachlorophenol	87-86-5	0.1	

Other federal regulations

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

Nο

2,4,5-Trichlorophenol (CAS 95-95-4)

2,4,6-Trichlorophenol (CAS 88-06-2)

2-Methylphenol (CAS 95-48-7)

3-Methylphenol (CAS 108-39-4)

4-Methylphenol (CAS 106-44-5)

Methanol (CAS 67-56-1)

Pentachlorophenol (CAS 87-86-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2,4,5-Trichlorophenol (CAS 95-95-4)

2,4,6-Trichlorophenol (CAS 88-06-2)

2-Methylphenol (CAS 95-48-7)

3-Methylphenol (CAS 108-39-4)

4-Methylphenol (CAS 106-44-5)

Methanol (CAS 67-56-1)

Pentachlorophenol (CAS 87-86-5)

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

2,4,5-Trichlorophenol (CAS 95-95-4)	500 LBS
2,4,6-Trichlorophenol (CAS 88-06-2)	500 LBS
2-Methylphenol (CAS 95-48-7)	500 LBS
3-Methylphenol (CAS 108-39-4)	500 LBS
4-Methylphenol (CAS 106-44-5)	500 LBS
Methanol (CAS 67-56-1)	500 LBS
Pentachlorophenol (CAS 87-86-5)	500 LBS

US. Pennsylvania RTK - Hazardous Substances

2,4,5-Trichlorophenol (CAS 95-95-4)

2,4,6-Trichlorophenol (CAS 88-06-2)

2-Methylphenol (CAS 95-48-7)

3-Methylphenol (CAS 108-39-4)

4-Methylphenol (CAS 106-44-5)

Methanol (CAS 67-56-1)

Pentachlorophenol (CAS 87-86-5)

US. Rhode Island RTK

2,4,5-Trichlorophenol (CAS 95-95-4)

2,4,6-Trichlorophenol (CAS 88-06-2)

2-Methylphenol (CAS 95-48-7)

3-Methylphenol (CAS 108-39-4)

4-Methylphenol (CAS 106-44-5)

Methanol (CAS 67-56-1)

Pentachlorophenol (CAS 87-86-5)

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

2,4,6-Trichlorophenol (CAS 88-06-2) Listed: January 1, 1988 Pentachlorophenol (CAS 87-86-5) Listed: January 1, 1990

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*AustraliaAustralian Inventory of Chemical Substances (AICS)Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
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

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

Issue date 10-02-2014

Version # 01

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.

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407 Version #: 01 Issue date: 10-02-2014

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).