SAFETY DATA SHEET



1. Identification

Product identifier Aromatic Volatile Organic Compounds Mixture-502.2/524.2

Other means of identification

M-AVOC1M1

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

Chemtrec US 800-424-9300 **Emergency phone number**

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 Reproductive toxicity Category 2 Specific target organ toxicity, single exposure Category 1 Specific target organ toxicity, repeated Category 1 exposure

Environmental hazards

Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic

life. Toxic to aquatic life with long lasting effects.

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. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Category 2

Material name: Aromatic Volatile Organic Compounds Mixture-502.2/524.2 167 Version #: 01 Issue date: 10-28-2014

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 eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it 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

Hazard(s) not otherwise classified (HNOC)

Dispose of contents/container in accordance with local/regional/national/international regulations. 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

0.02% of the mixture consists of component(s) of unknown acute oral toxicity. 0.13% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.11% of the mixture consists of component(s) of unknown acute inhalation toxicity. 99.79% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.78% 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
1,2,3-Trichlorobenzene		87-61-6	0.01
1,2,4-Trichlorobenzene		120-82-1	0.01
1,2,4-Trimethylbenzene		95-63-6	0.01
1,2-Dichlorobenzene		95-50-1	0.01
1,3,5-Trimethylbenzene		108-67-8	0.01
1,3-Dichlorobenzene		541-73-1	0.01
1,4-Dichlorobenzene		106-46-7	0.01
2-Chlorotoluene		95-49-8	0.01
4-Chlorotoluene		106-43-4	0.01
Benzene		71-43-2	0.01
Bromobenzene		108-86-1	0.01
Chlorobenzene		108-90-7	0.01
Ethylbenzene		100-41-4	0.01
Isopropylbenzene		98-82-8	0.01
m-Xylene		108-38-3	0.01
Naphthalene		91-20-3	0.01
n-Butylbenzene		104-51-8	0.01
n-Propylbenzene		103-65-1	0.01
o-Xylene		95-47-6	0.01
p-Isopropyltoluene		99-87-6	0.01
p-Xylene		106-42-3	0.01
sec-Butylbenzene		135-98-8	0.01
Styrene		100-42-5	0.01
tert-Butylbenzene		98-06-6	0.01
Toluene		108-88-3	0.01

^{*}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 Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention if irritation develops and

persists.

Eye contact

Ingestion

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.

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. 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. 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: 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 Specifically Regulated Substances (29 CFR 1910 1001-1050)

Occupational exposure limits

Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-1 Limits for Air C	Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
1,2-Dichlorobenzene (CAS 95-50-1)	Ceiling	300 mg/m3	
		50 ppm	
1,4-Dichlorobenzene (CAS 106-46-7)	PEL	450 mg/m3	
		75 ppm	
Chlorobenzene (CAS 108-90-7)	PEL	350 mg/m3	
		75 ppm	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
Isopropylbenzene (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
m-Xylene (CAS 108-38-3)	PEL	435 mg/m3	
		100 ppm	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
o-Xylene (CAS 95-47-6)	PEL	435 mg/m3	
		100 ppm	
p-Xylene (CAS 106-42-3)	PEL	435 mg/m3	
		100 ppm	
US. OSHA Table Z-2 (29 CFR 1910.1	•		
Components	Type	Value	
Benzene (CAS 71-43-2)	Ceiling	25 ppm	

Components	Туре	Value	
	TWA	10 ppm	
Styrene (CAS 100-42-5)	Ceiling	200 ppm	
	TWA	100 ppm	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values Components	Туре	Value	
1,2,4-Trichlorobenzene (CAS 120-82-1)	Ceiling	5 ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
1,2-Dichlorobenzene (CAS 95-50-1)	STEL	50 ppm	
	TWA	25 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	25 ppm	
1,4-Dichlorobenzene (CAS 106-46-7)	TWA	10 ppm	
2-Chlorotoluene (CAS 95-49-8)	TWA	50 ppm	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Chlorobenzene (CAS 108-90-7)	TWA	10 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Isopropylbenzene (CAS 98-82-8)	TWA	50 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
m-Xylene (CAS 108-38-3)	STEL	150 ppm	
	TWA	100 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
,	TWA	10 ppm	
o-Xylene (CAS 95-47-6)	STEL	150 ppm	
0 /tylene (e/le ee 11 e)	TWA	100 ppm	
n Vulana (CAS 106 42 2)	STEL	• •	
p-Xylene (CAS 106-42-3)		150 ppm	
Characa (CAC 400 42 5)	TWA	100 ppm	
Styrene (CAS 100-42-5)	STEL	40 ppm	
	TWA	20 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Chemi Components	cal Hazards Type	Value	
1,2,4-Trichlorobenzene (CAS 120-82-1)	Ceiling	40 mg/m3	
(3.3 120 32 1)		5 ppm	
1,2,4-Trimethylbenzene	TWA	125 mg/m3	
(CAS 95-63-6)		25 ppm	
1,2-Dichlorobenzene (CAS	Ceiling	300 mg/m3	
95-50-1)	Coming	<u>-</u>	
1.2 F. Trimothydhannas	T\A/A	50 ppm	
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	125 mg/m3	
		25 ppm	
2-Chlorotoluene (CAS 95-49-8)	STEL	375 mg/m3	
		75	
		75 ppm	
	TWA	75 ppm 250 mg/m3	

Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	1 ppm	
	TWA	0.1 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
sopropylbenzene (CAS 98-82-8)	TWA	245 mg/m3	
		50 ppm	
Methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	
	TWA	260 mg/m3	
		200 ppm	
m-Xylene (CAS 108-38-3)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
o-Xylene (CAS 95-47-6)	STEL	655 mg/m3	
,		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
o-Xylene (CAS 106-42-3)	STEL	655 mg/m3	
,		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
Styrene (CAS 100-42-5)	STEL	425 mg/m3	
,		100 ppm	
	TWA	215 mg/m3	
		50 ppm	
Γoluene (CAS 108-88-3)	STEL	560 mg/m3	
(3.12 132 32 3,		150 ppm	
	TWA	375 mg/m3	
		100 ppm	

Biological limit values

ACGIH Biological Exposu				
Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in urine	*
Chlorobenzene (CAS 108-90-7)	100 mg/g	4-Chlorocatech ol, with hydrolysis	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	0.7 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
m-Xylene (CAS 108-38-3)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
o-Xylene (CAS 95-47-6)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
p-Xylene (CAS 106-42-3)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
Styrene (CAS 100-42-5)	400 mg/g	Mandelic acid plus phenylglyoxylic acid	Creatinine in urine	*
	0.2 mg/l	Styrene	Venous blood	*

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*	
	0.03 mg/l	Toluene	Urine	*	
	0.02 mg/l	Toluene	Blood	*	

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

Exposure guidelines

US - California OELs: Skin designation

1,2-Dichlorobenzene (CAS 95-50-1) Can be absorbed through the skin. 2-Chlorotoluene (CAS 95-49-8) Can be absorbed through the skin. Benzene (CAS 71-43-2) Can be absorbed through the skin. Isopropylbenzene (CAS 98-82-8) Can be absorbed through the skin. Methanol (CAS 67-56-1) Can be absorbed through the skin. Styrene (CAS 100-42-5) Can be absorbed through the skin. Toluene (CAS 108-88-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Chlorotoluene (CAS 95-49-8) Skin designation applies. Isopropylbenzene (CAS 98-82-8) Skin designation applies. Methanol (CAS 67-56-1) Skin designation applies. Styrene (CAS 100-42-5) Skin designation applies. Toluene (CAS 108-88-3) Skin designation applies.

US - Tennesse OELs: Skin designation

Isopropylbenzene (CAS 98-82-8) Can be absorbed through the skin. Methanol (CAS 67-56-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2) Can be absorbed through the skin. Methanol (CAS 67-56-1) Can be absorbed through the skin. Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Isopropylbenzene (CAS 98-82-8) Can be absorbed through the skin. Methanol (CAS 67-56-1) Can be absorbed through the skin.

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

Isopropylbenzene (CAS 98-82-8) 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 safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves.

Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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.

9. Physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid Color Not available. Odor Not available. Odor threshold Not available. Not available. Ηq

-144.04 °F (-97.8 °C) estimated Melting point/freezing point

Initial boiling point and boiling 14

range

148.46 °F (64.7 °C) estimated

Flash point 53.6 °F (12.0 °C) estimated

Evaporation rate Not available.

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.

Explosive limit - upper (%) Not available.

Vapor pressure 169.3 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

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

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

Other information

Density 0.787102 g/cm3 estimated
Flammability class Flammable IB estimated
Percent volatile 99.91 % estimated
Specific gravity 0.79 estimated
VOC (Weight %) 99.91 % estimated

10. Stability and reactivity

ReactivityThe 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.

reactions

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

Conditions to avoid

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Toxic if swallowed.

Inhalation Toxic by inhalation. May cause damage to organs by inhalation.

Skin contactToxic in contact with skin.Eye contactCauses serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

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

Information on toxicological effects

Acute toxicity

Toxic by inhalation. Toxic if swallowed. Toxic in contact with skin. Expected to be a low hazard for

usual industrial or commercial handling by trained personnel.

Components Species Test Results

1,2,3-Trichlorobenzene (CAS 87-61-6)

Acute Oral

LD50 Mouse 766 mg/kg

Components	Species	Test Results
	Rat	756 mg/kg
Other		
LD50	Rat	750 mg/kg
1,2,4-Trichlorobenzene (CA	S 120-82-1)	
Acute		
Dermal	Mayaa	200 mallea
LD50	Mouse	300 mg/kg
	Rabbit	> 5000 mg/kg
	Rat	11356 mg/kg
Oral		
LD50	Mouse	766 mg/kg
	Rat	600 mg/kg
Other		4000 #
LD50	Mouse	1223 mg/kg
	Rat	6100 mg/kg
1,2,4-Trimethylbenzene (CA	AS 95-63-6)	
Acute		
Dermal	Dobbit	> 2160 malka
LD50	Rabbit	> 3160 mg/kg
<i>Inhalation</i> LC50	Mouse, Rat	2000 - 9833 mg/m3, 12 Hours
LO30	Rat	
	Rai	> 2000 ppm, 48 Hours
		10200 mg/m3, 4 Hours
<i>Oral</i> LD50	Rat	3280 mg/kg
		Szov Hg/kg
1,2-Dichlorobenzene (CAS s	95-50-1)	
Inhalation		
LC100	Rat	9.5 mg/l, 4 Hours
LC50	Mouse	1236 ppm, 6 Hours
2000	des	6.825 mg/l, 6 Hours
	Rat	1532 ppm, 6 Hours
	Nat	
•		8.15 mg/l, 4 Hours
<i>Oral</i> LD100	Cuinos nia	2000 mg/kg
	Guinea pig	
LD50	Guinea pig	0.0008 mg/kg
	Mouse	2000 mg/kg
	Rabbit	500 mg/kg
	Rat	500 mg/kg
Other		
LD50	Mouse	1228 mg/kg
	Rat	840 mg/kg
		1.66 ml/kg
1,3,5-Trimethylbenzene (CA	AS 108-67-8)	
Acute		
Dermal	D. /	4 10
LD50	Rat	> 4 ml/kg
Inhalation	Det	40000
LC50	Rat	10200 mg/m3, 4 Hours
Oral	Det	2000 #
LD50	Rat	3280 mg/kg

Components	Species	Test Results
Other		
LD100	Rat	1.5 g/kg
1,3-Dichlorobenzene (CAS	541-73-1)	
Acute		
Inhalation		
LC50	Rat	> 17.6 mg/l, 4 Hours
Oral		
LD50	Rat	580 mg/kg
Other		
LD50	Mouse	1023 mg/kg
	Rat	1000 mg/kg
1,4-Dichlorobenzene (CAS	106-46-7)	
Acute	,	
Dermal		
LD50	Rat	> 6000 mg/kg
Inhalation		0 0
LC50	Rat	> 5.07 mg/l, 4 Hours
Oral		3 /
LD50	Guinea pig	7593 mg/kg
	Mouse	2950 mg/kg
	Rabbit	
		2812 mg/kg
	Rat	500 mg/kg
		500 - 1000 mg/kg
Other		
LD50	Mouse	2 g/kg
	Rat	2562 mg/kg
2-Chlorotoluene (CAS 95-4	9-8)	
Acute		
Dermal		
LD50	Rabbit	> 7940 mg/kg
	Rat	> 1080 mg/kg
Inhalation		
LC50	Mouse	> 20.583 mg/l, 1 Hours
	Rat	> 20.583 mg/l, 1 Hours
		7119 ppm, 4 Hours
Oral		7 To pp. 1. Todalo
LD50	Mouse	3776 mg/kg
2500	Rat	1659 mg/kg
0//	Nat	1039 Hig/kg
<i>Other</i> LD50	Det	690 malka
	Rat	680 mg/kg
4-Chlorotoluene (CAS 106-	43-4)	
Acute		
Dermal	Dahhit	> 2000 malka
LD50	Rabbit	> 2000 mg/kg
	Rat	> 5000 mg/kg
Inhalation		
LC50	Mouse	34 mg/l, 2 Hours
	Rat	21.5 mg/l
Oral		
LD50	Guinea pig	3750 mg/kg
	Mouse	1900 mg/kg
	Rat	1920 mg/kg
		3 3

Components	Species	Test Results
Benzene (CAS 71-43-2)		
Acute		
Inhalation		
LC50	Mouse	9980 ppm
		9980 ppm, 7 Hours
	Rat	43767 mg/m3, 4 Hours
		13700 ppm, 4 Hours
		10000 ppm, 7 Hours
Oral		
LD50	Mouse	4700 mg/kg
	Rat	690 - 1230 mg/kg
Other		
LD50	Mouse	340 mg/kg
		0.28 ml/kg
	Rat	2.89 mg/kg
Chlorobenzene (CAS 108-90-		
Acute	,	
Inhalation		
LC100	Mouse	0.05 mg/l
LC50	Mouse	1886 ppm, 6 Hours
	Rat	2965 ppm, 6 Hours
		13.9 mg/l, 6 Hours
Oral		•
LD50	Guinea pig	5060 mg/kg
	Mouse	778 mg/kg
	Rabbit	2250 mg/kg
	Rat	1110 mg/kg
		1.29 ml/kg
Other		1.25 ming
LD50	Mouse	515 mg/kg
	Rat	570 mg/kg
Ethylbenzene (CAS 100-41-4)		or o mg ng
Acute		
Dermal		
LD50	Rabbit	17800 mg/kg
		17.8 ml/kg
Inhalation		
LC50	Mouse	> 8000 ppm, 20 Minutes
		35.5 mg/l
	Rat	4000 ppm
		55 mg/l
Oral		Ç
LD50	Rat	3500 mg/kg
		3.5 g/kg
Other		0 0
LD50	Mouse	2272 mg/kg
Isopropylbenzene (CAS 98-82	-8)	
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
		12.3 ml/kg

Components	Species	Test Results
<i>Inhalation</i> LC50	Mouse	2000 ppm 7 Hours
LC50	Mouse	2000 ppm, 7 Hours
		24.7 mg/l, 2 Hours
	D. (10 mg/l, 7 Hours
	Rat	8000 ppm, 4 Hours
<i>Oral</i> LD100	Det	5000 mg/kg
	Rat	5000 mg/kg
LD50	Rat	1400 mg/kg
Methanol (CAS 67-56-1) Acute		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		3 3
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		5 /
LD50	Monkey	6000 mg/kg
	Mouse	7300 mg/kg
	Pig	> 5000 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
Other		3 3
LD50	Guinea pig	3556 mg/kg
	Hamster	8555 mg/kg
	Mouse	4100 mg/kg
	Rabbit	1826 mg/kg
	Rat	2131 mg/kg
m-Xylene (CAS 108-38-3)		3 3
Acute		
Dermal		
LD50	Rabbit	12100 mg/kg
Inhalation		
LC50	Mouse	5267 ppm, 6 Hours
	Rat	6700 ppm, 4 Hours
		5984 ppm, 6 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	4300 mg/kg
Naphthalene (CAS 91-20-3)		
Acute		
<i>Dermal</i> LD50	Rabbit	> 2 alka
LD30		> 2 g/kg
loh-l-ti	Rat	> 2500 mg/kg
<i>Inhalation</i> LC50	Rat	> 78 ppm, 4 Hours
2000	r Cat	> 0.4 mg/l, 4 Hours
Oral		7 U.T HIg/I, T Houls
LD50	Guinea pig	1200 mg/kg
~~		· ··· ʊ
	Mouse	533 mg/kg

Components	Species	Test Results
<i>Other</i> LD50	Mouse	100 mg/kg
n-Butylbenzene (CAS 104-51-8)	Wiouse	100 mg/kg
Acute		
Other		
LD50	Mouse	1994.5 mg/kg
n-Propylbenzene (CAS 103-65-1)		
Acute		
Oral		
LD50	Rat	6040 mg/kg
o-Xylene (CAS 95-47-6)		
Acute		
Dermal		
LD50	Rabbit	> 5000 ml/kg
		> 43 g/kg
Inhalation		
LC50	Mouse	4595 ppm, 6 Hours
	Rat	6350 ppm, 4 Hours
		4330 ppm, 6 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 mg/kg
		10 ml/kg
p-Isopropyltoluene (CAS 99-87-6)		10 ming
Acute		
Oral		
LD50	Rat	4750 mg/kg
p-Xylene (CAS 106-42-3)		3 3
Acute		
Dermal		
LD50	Rabbit	> 5000 ml/kg
		> 43 g/kg
Inhalation		
LC50	Mouse	3900 ppm, 6 Hours
	Rat	5922 ppm, 4 Hours
		4591 ppm, 6 Hours
Oral		pp,
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
Other		
LD50	Rat	3.8 mg/kg
sec-Butylbenzene (CAS 135-98-8)		3 3
Acute		
Oral		
LD50	Rat	2240 mg/kg
Styrene (CAS 100-42-5)		
Acute		
Inhalation		
LC100	Rat	6 - 6.3 mg/l
LC50	Guinea pig	> 5.11 mg/l
	Mouse	> 2.13 mg/l
		4940 ppm, 2 Hours
		21 mg/l, 2 Hours
		21 mg/1, 21 louis

Components	Species	Test Results
	Rat	2770 ppm, 4 Hours
		11.8 mg/l, 4 Hours
Oral		
LD100	Rat	8000 mg/kg
LD50	Hamster	> 6000 mg/kg
	Mouse	316 mg/kg
	Rat	1 g/kg
Other		
LD50	Mouse	90 g/kg
	Rat	898 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal	Dakkii	5 5000 mm/l/m
LD50	Rabbit	> 5000 mg/kg
		14.1 ml/kg
<i>Inhalation</i> LC50	Mouse	6405 - 7436 ppm, 6 Hours
LC30	Wouse	5320 ppm, 8 Hours
		* *
	Det	400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
		5879 - 6281 ppm, 6 Hours
		12.5 - 28.8 mg/l, 4 Hours
Oral	5 .4	0.0 #
LD50	Rat	2.6 g/kg
Other	Mouse	FO malka
LD50		59 mg/kg
	Rat	1332 mg/kg

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

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

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause 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 This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

1,2-Dichlorobenzene (CAS 95-50-1) 3 Not classifiable as to carcinogenicity to humans. 1,3-Dichlorobenzene (CAS 541-73-1) 3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans. 1,4-Dichlorobenzene (CAS 106-46-7)

1 Carcinogenic to humans. Benzene (CAS 71-43-2)

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans. Isopropylbenzene (CAS 98-82-8) 2B Possibly carcinogenic to humans.

m-Xylene (CAS 108-38-3) 3 Not classifiable as to carcinogenicity to humans.

Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

o-Xylene (CAS 95-47-6) 3 Not classifiable as to carcinogenicity to humans. p-Xylene (CAS 106-42-3) 3 Not classifiable as to carcinogenicity to humans.

Styrene (CAS 100-42-5) 2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

1,4-Dichlorobenzene (CAS 106-46-7) Reasonably Anticipated to be a Human Carcinogen. Benzene (CAS 71-43-2)

Known To Be Human Carcinogen.

Naphthalene (CAS 91-20-3) Styrene (CAS 100-42-5) Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.

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

Benzene (CAS 71-43-2)

Cancer

Reproductive toxicity Suspected of damaging 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 Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components		Species	Test Results
1,2,4-Trichlorobenzen	e (CAS 120-82-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3.1 - 3.69 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	1.35 - 1.73 mg/l, 96 hours
1,2,4-Trimethylbenzen	ne (CAS 95-63-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours
1,2-Dichlorobenzene ((CAS 95-50-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.74 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	1.58 mg/l, 96 hours
1,3,5-Trimethylbenzen	ne (CAS 108-67-8)		
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	9.89 - 15.05 mg/l, 96 hours
1,3-Dichlorobenzene ((CAS 541-73-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.2 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	3.9 - 6.2 mg/l, 96 hours
1,4-Dichlorobenzene ((CAS 106-46-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.0007 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	1.12 mg/l, 96 hours
2-Chlorotoluene (CAS	95-49-8)		
Aquatic			
Fish	LC50	Bleak (Alburnus alburnus)	6.7 - 9.1 mg/l, 96 hours
Benzene (CAS 71-43-	2)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	7.2 - 11.7 mg/l, 96 hours
Bromobenzene (CAS	108-86-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	5.6 mg/l, 96 hours
Chlorobenzene (CAS	108-90-7)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	4.1 - 4.9 mg/l, 96 hours

Components		Species	Test Results
Ethylbenzene (CAS 10	00-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Isopropylbenzene (CA	S 98-82-8)		
Aquatic			
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 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
m-Xylene (CAS 108-38	8-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2.81 - 5 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	8.4 mg/l, 96 hours
Naphthalene (CAS 91-	-20-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	1.11 - 1.68 mg/l, 96 hours
n-Butylbenzene (CAS	104-51-8)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.27 - 0.44 mg/l, 48 hours
n-Propylbenzene (CAS	3 103-65-1)		
Aquatic			
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	1.55 mg/l, 96 hours
o-Xylene (CAS 95-47-6	6)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.78 - 2.51 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	5.59 - 11.6 mg/l, 96 hours
p-Isopropyltoluene (CA	AS 99-87-6)		
Aquatic			
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	36 - 64 mg/l, 96 hours
p-Xylene (CAS 106-42	2-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3.55 - 6.31 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.6 mg/l, 96 hours
Styrene (CAS 100-42-	5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3.3 - 7.4 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	5.1 - 16 mg/l, 96 hours
Toluene (CAS 108-88-	-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon	8.11 mg/l, 96 hours
		(Oncorhynchus kisutch)	

^{*} 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	Partition	coefficient	n-octanol /	water	(log	Kow)
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i an interior commence in containers matter (registers)	
1,2,3-Trichlorobenzene	4.05
1,2,4-Trichlorobenzene	4.02
1,2-Dichlorobenzene	3.43
1,3-Dichlorobenzene	3.53
1,4-Dichlorobenzene	3.44
2-Chlorotoluene	3.42
4-Chlorotoluene	3.33
Benzene	2.13
Bromobenzene	2.99
Chlorobenzene	2.89
Ethylbenzene	3.15
Isopropylbenzene	3.66
Methanol	-0.77
m-Xylene	3.2
Naphthalene	3.3
n-Butylbenzene	4.38
n-Propylbenzene	3.69
o-Xylene	3.12
p-Isopropyltoluene	4.1
p-Xylene	3.15
sec-Butylbenzene	4.57
Styrene	2.95
tert-Butylbenzene	4.11
Toluene	2.73

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

1,2-Dichlorobenzene (CAS 95-50-1)	U070
1,3-Dichlorobenzene (CAS 541-73-1)	U071
1,4-Dichlorobenzene (CAS 106-46-7)	U072
Benzene (CAS 71-43-2)	U019
Chlorobenzene (CAS 108-90-7)	U037
Isopropylbenzene (CAS 98-82-8)	U055
Methanol (CAS 67-56-1)	U154
m-Xylene (CAS 108-38-3)	U239
Naphthalene (CAS 91-20-3)	U165
o-Xylene (CAS 95-47-6)	U239
p-Xylene (CAS 106-42-3)	U239
Toluene (CAS 108-88-3)	U220

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.

Cilipa

14. Transport information

DOT

UN number UN1230

UN proper shipping name Methanol, solution, MARINE POLLUTANT

Transport hazard class(es)

Class 3

Subsidiary risk -

Label(s) 3
Packing group

Environmental hazards

Marine pollutant Yes

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

Passenger and cargo

aircraft

Cargo aircraft only Allowed.

IMDG

UN number UN1230

UN proper shipping name METHANOL SOLUTION, MARINE POLLUTANT

Not available.

Allowed.

Transport hazard class(es)

Class 3

Subsidiary risk 6.1(PGI, II)

Packing group

Environmental hazards

Marine pollutant Yes 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

the IBC Code

DOT







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.

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

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

1,2,3-Trichlorobenzene (CAS 87-61-6)	Listed.
1,2,4-Trichlorobenzene (CAS 120-82-1)	Listed.
1,2-Dichlorobenzene (CAS 95-50-1)	Listed.
1,3-Dichlorobenzene (CAS 541-73-1)	Listed.
Benzene (CAS 71-43-2)	Listed.
Chlorobenzene (CAS 108-90-7)	Listed.
Ethylbenzene (CAS 100-41-4)	Listed.
Isopropylbenzene (CAS 98-82-8)	Listed.
Methanol (CAS 67-56-1)	Listed.
m-Xylene (CAS 108-38-3)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
n-Propylbenzene (CAS 103-65-1)	Listed.
o-Xylene (CAS 95-47-6)	Listed.
p-Xylene (CAS 106-42-3)	Listed.
Styrene (CAS 100-42-5)	Listed.
Toluene (CAS 108-88-3)	Listed.

SARA 304 Emergency release notification

Not regulated.

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

Benzene (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eve

respiratory tract irritation

Flammability

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

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Methanol	67-56-1	>99	

Other federal regulations

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

1,2,4-Trichlorobenzene (CAS 120-82-1)

1,4-Dichlorobenzene (CAS 106-46-7)

Benzene (CAS 71-43-2)

Chlorobenzene (CAS 108-90-7)

```
Ethylbenzene (CAS 100-41-4)
        Isopropylbenzene (CAS 98-82-8)
        Methanol (CAS 67-56-1)
        m-Xylene (CAS 108-38-3)
        Naphthalene (CAS 91-20-3)
        o-Xylene (CAS 95-47-6)
        p-Xylene (CAS 106-42-3)
        Styrene (CAS 100-42-5)
        Toluene (CAS 108-88-3)
    Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
        Not regulated.
                                Not regulated.
    Safe Drinking Water Act
    (SDWA)
        Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
        Chemical Code Number
            Toluene (CAS 108-88-3)
                                                             6594
        Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
                                                             35 %WV
            Toluene (CAS 108-88-3)
        DEA Exempt Chemical Mixtures Code Number
            Toluene (CAS 108-88-3)
                                                             594
US state regulations
    US. Massachusetts RTK - Substance List
        1,2,3-Trichlorobenzene (CAS 87-61-6)
        1,2,4-Trichlorobenzene (CAS 120-82-1)
        1,2,4-Trimethylbenzene (CAS 95-63-6)
        1,2-Dichlorobenzene (CAS 95-50-1)
        1.3.5-Trimethylbenzene (CAS 108-67-8)
        1,3-Dichlorobenzene (CAS 541-73-1)
        1,4-Dichlorobenzene (CAS 106-46-7)
        2-Chlorotoluene (CAS 95-49-8)
        4-Chlorotoluene (CAS 106-43-4)
        Benzene (CAS 71-43-2)
        Bromobenzene (CAS 108-86-1)
        Chlorobenzene (CAS 108-90-7)
        Ethylbenzene (CAS 100-41-4)
        Isopropylbenzene (CAS 98-82-8)
        Methanol (CAS 67-56-1)
        m-Xylene (CAS 108-38-3)
        Naphthalene (CAS 91-20-3)
        n-Butylbenzene (CAS 104-51-8)
        n-Propylbenzene (CAS 103-65-1)
        o-Xylene (CAS 95-47-6)
        p-Isopropyltoluene (CAS 99-87-6)
        p-Xylene (CAS 106-42-3)
        sec-Butylbenzene (CAS 135-98-8)
        Styrene (CAS 100-42-5)
        tert-Butylbenzene (CAS 98-06-6)
        Toluene (CAS 108-88-3)
    US. New Jersey Worker and Community Right-to-Know Act
        1,2,4-Trichlorobenzene (CAS 120-82-1)
                                                             500 LBS
        1,2,4-Trimethylbenzene (CAS 95-63-6)
                                                             500 LBS
        1,2-Dichlorobenzene (CAS 95-50-1)
                                                             500 LBS
        1,3-Dichlorobenzene (CAS 541-73-1)
                                                             500 LBS
        1,4-Dichlorobenzene (CAS 106-46-7)
                                                             500 LBS
        Benzene (CAS 71-43-2)
                                                             500 LBS
        Chlorobenzene (CAS 108-90-7)
                                                             500 LBS
        Ethylbenzene (CAS 100-41-4)
                                                             500 LBS
        Isopropylbenzene (CAS 98-82-8)
                                                             500 LBS
        Methanol (CAS 67-56-1)
                                                             500 LBS
        m-Xylene (CAS 108-38-3)
                                                             500 LBS
        Naphthalene (CAS 91-20-3)
                                                             500 LBS
        o-Xylene (CAS 95-47-6)
                                                             500 LBS
        p-Xylene (CAS 106-42-3)
                                                             500 LBS
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500 LBS

500 LBS

US. Pennsylvania RTK - Hazardous Substances

1,2,3-Trichlorobenzene (CAS 87-61-6)

Styrene (CAS 100-42-5)

Toluene (CAS 108-88-3)

- 1,2,4-Trichlorobenzene (CAS 120-82-1) 1,2,4-Trimethylbenzene (CAS 95-63-6) 1,2-Dichlorobenzene (CAS 95-50-1) 1,3,5-Trimethylbenzene (CAS 108-67-8) 1,3-Dichlorobenzene (CAS 541-73-1) 1,4-Dichlorobenzene (CAS 106-46-7) 2-Chlorotoluene (CAS 95-49-8) 4-Chlorotoluene (CAS 106-43-4)
- Benzene (CAS 71-43-2) Bromobenzene (CAS 108-86-1) Chlorobenzene (CAS 108-90-7) Ethylbenzene (CAS 100-41-4) Isopropylbenzene (CAS 98-82-8)

Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3)

Naphthalene (CAS 91-20-3) n-Butylbenzene (CAS 104-51-8) n-Propylbenzene (CAS 103-65-1)

o-Xylene (CAS 95-47-6)

p-Isopropyltoluene (CAS 99-87-6)

p-Xylene (CAS 106-42-3)

sec-Butylbenzene (CAS 135-98-8)

Styrene (CAS 100-42-5)

tert-Butylbenzene (CAS 98-06-6)

Toluene (CAS 108-88-3)

US. Rhode Island RTK

1,2,3-Trichlorobenzene (CAS 87-61-6)

1,2,4-Trichlorobenzene (CAS 120-82-1)

1,2,4-Trimethylbenzene (CAS 95-63-6)

1,2-Dichlorobenzene (CAS 95-50-1)

1,3-Dichlorobenzene (CAS 541-73-1)

1,4-Dichlorobenzene (CAS 106-46-7)

Benzene (CAS 71-43-2)

Chlorobenzene (CAS 108-90-7) Ethylbenzene (CAS 100-41-4)

Isopropylbenzene (CAS 98-82-8)

Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3)

Naphthalene (CAS 91-20-3)

o-Xylene (CAS 95-47-6)

p-Xylene (CAS 95-47-6)

Styrene (CAS 100-42-5)

Toluene (CAS 108-88-3)

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

1,4-Dichlorobenzene (CAS 106-46-7)Listed: January 1, 1989Benzene (CAS 71-43-2)Listed: February 27, 1987Ethylbenzene (CAS 100-41-4)Listed: June 11, 2004Isopropylbenzene (CAS 98-82-8)Listed: April 6, 2010Naphthalene (CAS 91-20-3)Listed: April 19, 2002

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

 Benzene (CAS 71-43-2)
 Listed: December 26, 1997

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

 Toluene (CAS 108-88-3)
 Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3) Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

International Inventories

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

Country(s) or region Inventory name On inventory (yes/no)* Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Existing Chemicals List (ECL) Korea Nο New Zealand New Zealand Inventory Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Philippine Inventory of Chemicals and Chemical Substances

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

Issue date 10-28-2014

Version # 01

NFPA ratings Health: 2

Flammability: 3 Instability: 0

Disclaimer

Philippines

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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Yes

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).