

SAFETY DATA SHEET

1. Identification

Product identifier Aromatic Volatile Organic Compounds Mixture #2 - 502.2/524.2

Other means of identification

Item M-AVOC2M5

Recommended use For Laboratory Use Only

Recommended restrictions 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
	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
	Germ cell mutagenicity	Category 1
	Carcinogenicity	Category 1A
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 1
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
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. May cause cancer. Causes serious eye irritation. Toxic if inhaled. May cause genetic defects. Suspected of damaging the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very 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. 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face 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 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

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. 2.4% of the mixture consists of component(s) of unknown acute dermal toxicity. 2.6% of the mixture consists of component(s) of unknown acute inhalation toxicity. 95.8% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 95.6% 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	95
1,2,3-Trichlorobenzene		87-61-6	0.2
1,2,4-Trichlorobenzene		120-82-1	0.2
1,2,4-Trimethylbenzene		95-63-6	0.2
1,2-Dichlorobenzene		95-50-1	0.2
1,3,5-Trimethylbenzene		108-67-8	0.2
1,3-Dichlorobenzene		541-73-1	0.2
1,4-Dichlorobenzene		106-46-7	0.2
2-Chlorotoluene		95-49-8	0.2
4-Chlorotoluene		106-43-4	0.2
Benzene		71-43-2	0.2
Bromobenzene		108-86-1	0.2
Chlorobenzene		108-90-7	0.2
Ethylbenzene		100-41-4	0.2
Isopropylbenzene		98-82-8	0.2
m-Xylene		108-38-3	0.2
Naphthalene		91-20-3	0.2
n-Butylbenzene		104-51-8	0.2
n-Propylbenzene		103-65-1	0.2
o-Xylene		95-47-6	0.2
p-Isopropyltoluene		99-87-6	0.2
p-Xylene		106-42-3	0.2
sec-Butylbenzene		135-98-8	0.2

Chemical name	Common name and synonyms	CAS number	%
Styrene		100-42-5	0.2
tert-Butylbenzene		98-06-6	0.2
Toluene		108-88-3	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. 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

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. 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

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

General fire hazards

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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

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

Occupational exposure limits

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

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	5 ppm
	TWA	1 ppm

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

Components	Type	Value
1,2-Dichlorobenzene (CAS 95-50-1)	Ceiling	300 mg/m ³
		50 ppm
1,4-Dichlorobenzene (CAS 106-46-7)	PEL	450 mg/m ³
		75 ppm

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

Components	Type	Value
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 1910.1000)

Components	Type	Value
Benzene (CAS 71-43-2)	Ceiling	25 ppm
	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	Type	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)	TWA	10 ppm
o-Xylene (CAS 95-47-6)	STEL	150 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
p-Xylene (CAS 106-42-3)	TWA	100 ppm
	STEL	150 ppm
Styrene (CAS 100-42-5)	TWA	100 ppm
	STEL	40 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm
	TWA	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
1,2,4-Trichlorobenzene (CAS 120-82-1)	Ceiling	40 mg/m3
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	5 ppm
		125 mg/m3
1,2-Dichlorobenzene (CAS 95-50-1)	Ceiling	25 ppm
		300 mg/m3
1,3,5-Trimethylbenzene (CAS 108-67-8)	TWA	50 ppm
		125 mg/m3
2-Chlorotoluene (CAS 95-49-8)	STEL	25 ppm
		375 mg/m3
Benzene (CAS 71-43-2)	TWA	75 ppm
		250 mg/m3
		50 ppm
Ethylbenzene (CAS 100-41-4)	STEL	1 ppm
		0.1 ppm
Isopropylbenzene (CAS 98-82-8)	STEL	545 mg/m3
		125 ppm
Methanol (CAS 67-56-1)	TWA	435 mg/m3
		100 ppm
		245 mg/m3
m-Xylene (CAS 108-38-3)	TWA	50 ppm
		325 mg/m3
		250 ppm
Naphthalene (CAS 91-20-3)	TWA	260 mg/m3
		200 ppm
		655 mg/m3
o-Xylene (CAS 95-47-6)	STEL	150 ppm
		435 mg/m3
		100 ppm
p-Xylene (CAS 106-42-3)	STEL	75 mg/m3
		15 ppm
		50 mg/m3
Styrene (CAS 100-42-5)	TWA	10 ppm
		425 mg/m3
		100 ppm
	TWA	215 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Toluene (CAS 108-88-3)	STEL	50 ppm
		560 mg/m ³
	TWA	150 ppm
		375 mg/m ³
		100 ppm

Biological limit values
ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 µg/g	S-Phenylmercapturic acid	Creatinine in urine	*
Chlorobenzene (CAS 108-90-7)	100 mg/g	4-Chlorocatechol, with hydrolysis	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	0.15 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	*
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 - Tennessee 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.
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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.

Respiratory protection

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

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.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

-144.04 °F (-97.8 °C) estimated

Initial boiling point and boiling 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 (n-octanol/water)

Not available.

Auto-ignition temperature

867.2 °F (464 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Density

0.79854 g/cm3 estimated

Flammability class	Flammable IB estimated
Percent volatile	98.2 % estimated
Specific gravity	0.8 estimated
VOC (Weight %)	98.3 % 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	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic by inhalation. May cause damage to organs by inhalation.
Skin contact	Toxic in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Toxic if swallowed.

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
	Rat	> 5000 mg/kg
1,2,4-Trichlorobenzene (CAS 120-82-1)		
Acute		
Dermal		
LD50	Mouse	300 mg/kg
	Rabbit	> 5000 mg/kg
	Rat	11356 mg/kg
Oral		
LD50	Mouse	766 mg/kg
	Rat	756 mg/kg
1,2,4-Trimethylbenzene (CAS 95-63-6)		
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
	Rat	3440 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Mouse, Rat	> 2000 ppm, 12 Hours
LC50	Rat	> 2000 ppm, 48 Hours

Components	Species	Test Results
		10200 mg/m3, 4 Hours
Oral		
LD50	Rat	6000 mg/kg
		3280 mg/kg
1,2-Dichlorobenzene (CAS 95-50-1)		
Acute		
Inhalation		
LC50	Mouse	6.825 mg/l, 6 Hours
Oral		
LD50	Guinea pig	0.0008 mg/kg
	Mouse	4386 g/kg
	Rabbit	500 g/kg
	Rat	> 2000 mg/kg
1,3,5-Trimethylbenzene (CAS 108-67-8)		
Acute		
Dermal		
LD50	Rat	> 4 ml/kg, 24 Hours
Inhalation		
LC50	Rat	10200 mg/m3, 4 Hours
Oral		
LD50	Rat	6000 mg/kg
1,3-Dichlorobenzene (CAS 541-73-1)		
Acute		
Oral		
LD50	Rat	580 mg/kg
1,4-Dichlorobenzene (CAS 106-46-7)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Rat	> 5.07 mg/l, 4 Hours
Oral		
LD50	Rabbit	2830 mg/kg
	Rat	3790 mg/kg
2-Chlorotoluene (CAS 95-49-8)		
Acute		
Dermal		
LD50	Rat	> 1080 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Mouse	> 20.583 mg/l, 1 Hours
	Rat	> 20.583 mg/l, 1 Hours
LC50	Rat	7119 ppm, 4 Hours
Oral		
LD50	Rat	1659 mg/kg

Components	Species	Test Results
4-Chlorotoluene (CAS 106-43-4)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Rat	21.5 mg/l
Oral		
LD50	Rat	2100 mg/kg
Benzene (CAS 71-43-2)		
<u>Acute</u>		
Dermal		
LD50	Guinea pig; Rabbit	> 9.4 ml/kg, 24 Hours
Inhalation		
LC50	Mouse	9980 ppm
<i>Vapor</i>		
LC50	Rat	43767 mg/m ³ , 4 Hours 13700 ppm, 4 Hours
LC50	Rat	10000 ppm, 7 Hours
Oral		
LD50	Mouse	4700 mg/kg
	Rat	> 2000 mg/kg
Chlorobenzene (CAS 108-90-7)		
<u>Acute</u>		
Inhalation		
LC50	Rat	13.9 mg/l, 6 Hours
<i>Vapor</i>		
LC50	Rat	13.6 mg/l
Oral		
LD50	Mouse	1440 mg/kg
	Rat	> 2000 mg/kg 1.29 ml/kg
Ethylbenzene (CAS 100-41-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	17800 mg/kg 17.8 ml/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Mouse	> 8000 ppm, 20 Minutes
	Rat	4000 ppm
Oral		
LD50	Rat	3500 mg/kg
Isopropylbenzene (CAS 98-82-8)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3160 mg/kg, 24 Hours
Inhalation		
LC50	Mouse	2000 ppm, 7 Hours

Components	Species	Test Results
		24.7 mg/l, 2 Hours
<i>Vapor</i>		
LC50	Mouse	10 mg/l, 7 Hours
LC50	Rat	8000 ppm, 4 Hours
Oral		
LD50	Rat	2260 mg/kg
Methanol (CAS 67-56-1)		
<u>Acute</u>		
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		
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)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	12126 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Mouse	5267 ppm, 6 Hours
	Rat	6700 ppm, 4 Hours
		5984 ppm, 6 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	6631 mg/kg
Naphthalene (CAS 91-20-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2 g/kg
	Rat	> 16000 mg/kg, 24 Hours
		> 2500 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	> 78 ppm, 4 Hours

Components	Species	Test Results
		> 0.4 mg/l, 4 Hours
Oral		
LD50	Guinea pig	1200 mg/kg
	Mouse	533 mg/kg
	Rat	> 2000 mg/kg
		490 mg/kg
n-Propylbenzene (CAS 103-65-1)		
<u>Acute</u>		
Oral		
LD50	Rat	6040 mg/kg
o-Xylene (CAS 95-47-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 ml/kg, 4 Hours > 43 g/kg
Inhalation		
LC50	Mouse	4595 ppm, 6 Hours
	Rat	6350 ppm, 4 Hours
<i>Vapor</i>		
LC50	Rat	4330 ppm, 6 Hours
Oral		
LD50	Mouse	5251 mg/kg
	Rat	3523 mg/kg
		10 ml/kg
p-Isopropyltoluene (CAS 99-87-6)		
<u>Acute</u>		
Oral		
LD50	Rat	4750 mg/kg
p-Xylene (CAS 106-42-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 ml/kg, 4 Hours > 43 g/kg
Inhalation		
LC50	Mouse	3907 ppm, 6 Hours
<i>Vapor</i>		
LC50	Rat	5922 ppm, 4 Hours 4591 ppm, 6 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 mg/kg
sec-Butylbenzene (CAS 135-98-8)		
<u>Acute</u>		
Oral		
LD50	Rat	2240 mg/kg
Styrene (CAS 100-42-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours

Components	Species	Test Results
Inhalation		
<i>Vapor</i>		
LC50	Guinea pig	> 5.11 mg/l
	Mouse	> 2.13 mg/l
LC50	Mouse	4940 ppm, 2 Hours
	Rat	2770 ppm, 4 Hours
		24 mg/l, 4 Hours
Oral		
LD50	Hamster, Syrian	> 6000 mg/kg
	Mouse	316 mg/kg
	Rat	1 g/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
		14.1 ml/kg
Inhalation		
LC50	Mouse	5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
<i>Vapor</i>		
LC50	Rat	25.7 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
		2.6 g/kg

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

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

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

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.
1,4-Dichlorobenzene (CAS 106-46-7)	2B Possibly carcinogenic to humans.
Benzene (CAS 71-43-2)	1 Carcinogenic to humans.
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.
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Benzene (CAS 71-43-2)

Known To Be Human Carcinogen.

Naphthalene (CAS 91-20-3)

Reasonably Anticipated to be a Human Carcinogen.

Styrene (CAS 100-42-5)

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 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. Prolonged exposure may cause chronic effects. Causes damage to organs through prolonged or repeated exposure.

12. Ecological information

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

Components	Species	Test Results
1,2,4-Trichlorobenzene (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-Trimethylbenzene (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-Trimethylbenzene (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

Components		Species	Test Results
Chlorobenzene (CAS 108-90-7)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	4.1 - 4.9 mg/l, 96 hours
Ethylbenzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	7.5 - 11 mg/l, 96 hours
Isopropylbenzene (CAS 98-82-8)			
Aquatic			
Crustacea	EC50	Brine shrimp (<i>Artemia</i> sp.)	3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	2.7 mg/l, 96 hours
Methanol (CAS 67-56-1)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	> 100 mg/l, 96 hours
m-Xylene (CAS 108-38-3)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	2.81 - 5 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	8.4 mg/l, 96 hours
Naphthalene (CAS 91-20-3)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (<i>Oncorhynchus gorbuscha</i>)	1.11 - 1.68 mg/l, 96 hours
n-Butylbenzene (CAS 104-51-8)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	0.27 - 0.44 mg/l, 48 hours
n-Propylbenzene (CAS 103-65-1)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	1.55 mg/l, 96 hours
o-Xylene (CAS 95-47-6)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	0.78 - 2.51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	5.59 - 11.6 mg/l, 96 hours
p-Isopropyltoluene (CAS 99-87-6)			
Aquatic			
Fish	LC50	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	36 - 64 mg/l, 96 hours
p-Xylene (CAS 106-42-3)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	3.55 - 6.31 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	2.6 mg/l, 96 hours
Styrene (CAS 100-42-5)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	3.3 - 7.4 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	5.1 - 16 mg/l, 96 hours

Components	Species		Test Results
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 (Oncorhynchus kisutch)	8.11 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)

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 instructions Collect 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.

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 (Methanol RQ = 5263 LBS) (1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene)
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 (Methanol)
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	Allowed.
Cargo aircraft only	Allowed.

IMDG

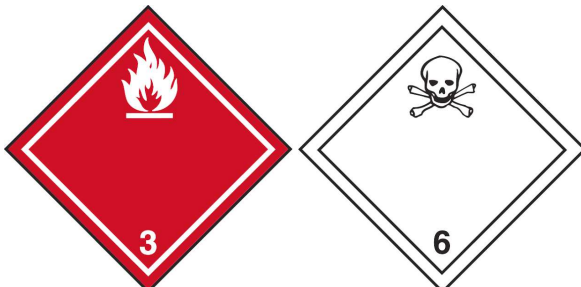
UN number	UN1230
UN proper shipping name	METHANOL SOLUTION (Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1(PGI, II)
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

DOT



IATA; IMDG



General information

DOT Regulated Marine Pollutant. IMDG 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.

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 Eye respiratory tract irritation Flammability
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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
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SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Methanol	67-56-1	95
1,4-Dichlorobenzene	106-46-7	0.2
Benzene	71-43-2	0.2
Ethylbenzene	100-41-4	0.2
Naphthalene	91-20-3	0.2
Styrene	100-42-5	0.2

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.

Safe Drinking Water Act (SDWA) Not regulated.

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))

Toluene (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3) 594

US state regulations

US - New Jersey RTK - Substances: Listed substance

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)
Styrene (CAS 100-42-5)
tert-Butylbenzene (CAS 98-06-6)
Toluene (CAS 108-88-3)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

1,4-Dichlorobenzene (CAS 106-46-7)
Benzene (CAS 71-43-2)

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))

1,2,3-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)
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-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. 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)
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 106-42-3)
Styrene (CAS 100-42-5)
Toluene (CAS 108-88-3)

US. Pennsylvania RTK - Hazardous Substances

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. Pennsylvania Worker and Community Right-to-Know Law

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. 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 106-42-3)
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, 1989
Benzene (CAS 71-43-2)	Listed: February 27, 1987
Ethylbenzene (CAS 100-41-4)	Listed: June 11, 2004
Isopropylbenzene (CAS 98-82-8)	Listed: April 6, 2010
Naphthalene (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
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US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2)	Listed: December 26, 1997
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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
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	Yes
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	09-12-2014
Revision date	09-07-2016
Version #	02
NFPA ratings	Health: 4 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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Composition / Information on Ingredients: Ingredients

Revision Information