# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **Gasoline Additives Mixture #2 - GRO/DRO**

**Other means of identification**

**Item** M-GADM2M4

**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. Causes serious eye irritation. Toxic if inhaled. May cause genetic defects. May cause cancer. 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. 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. |
| **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** | 0.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.1% of the mixture consists of component(s) of unknown acute inhalation toxicity. 98.9% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 98.9% 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 | >98 |
| 1,2-Dichlorobenzene | | 95-50-1 | 0.1 |
| 1,3-Dichlorobenzene | | 541-73-1 | 0.1 |
| 1,4-Dichlorobenzene | | 106-46-7 | 0.1 |
| Benzene | | 71-43-2 | 0.1 |
| Chlorobenzene | | 108-90-7 | 0.1 |
| Ethylbenzene | | 100-41-4 | 0.1 |
| m-Xylene | | 108-38-3 | 0.1 |
| o-Xylene | | 95-47-6 | 0.1 |
| p-Xylene | | 106-42-3 | 0.1 |
| Styrene | | 100-42-5 | 0.1 |
| Toluene | | 108-88-3 | 0.1 |

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

## 4. First-aid measures

| | |
|---|---|
| **Inhalation** | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician. |
| **Skin contact** | 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.<br><br>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.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>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/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 |
| Methanol (CAS 67-56-1) | PEL | 260 mg/m3 |
| | | 200 ppm |
| m-Xylene (CAS 108-38-3) | PEL | 435 mg/m3 |
| | | 100 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-Dichlorobenzene (CAS 95-50-1) | STEL | 50 ppm |
| | TWA | 25 ppm |
| 1,4-Dichlorobenzene (CAS 106-46-7) | TWA | 10 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 |
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |
| m-Xylene (CAS 108-38-3) | STEL | 150 ppm |
| | TWA | 100 ppm |
| o-Xylene (CAS 95-47-6) | STEL | 150 ppm |
| | TWA | 100 ppm |
| p-Xylene (CAS 106-42-3) | STEL | 150 ppm |
| | 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 Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| 1,2-Dichlorobenzene (CAS 95-50-1) | Ceiling | 300 mg/m3 |
| | | 50 ppm |
| 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 |
| 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 |
| o-Xylene (CAS 95-47-6) | STEL | 655 mg/m3 |
| | | 150 ppm |
| | TWA | 435 mg/m3 |
| | | 100 ppm |
| p-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 |
| Toluene (CAS 108-88-3) | STEL | 560 mg/m3 |
| | | 150 ppm |
| | TWA | 375 mg/m3 |
| | | 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) | 0.7 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 | * |
| 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. |
| Benzene (CAS 71-43-2) | 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**

| | |
|---|---|
| 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**

| | |
|---|---|
| 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. |

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

| | |
|---|---|
| Methanol (CAS 67-56-1) | 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** | 0.78892 g/cm3 estimated |
| **Flammability class** | Flammable IB estimated |
| **Percent volatile** | 99.9 % estimated |
| **Specific gravity** | 0.79 estimated |
| **VOC (Weight %)** | 99.9 % 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**

| | |
|---|---|
| **Ingestion** | Toxic if swallowed. |
| **Inhalation** | Toxic by inhalation. May cause damage to organs by inhalation. |

| | |
|---|---|
| **Skin contact** | Toxic in contact with skin. |
| **Eye contact** | Causes serious eye irritation. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |

**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-Dichlorobenzene (CAS 95-50-1) | | |
| **Acute** | | |
| *Inhalation* | | |
| LC100 | Rat | 9.5 mg/l, 4 Hours |
| LC50 | Mouse | 1236 ppm, 6 Hours |
| | | 6.825 mg/l, 6 Hours |
| | Rat | 1532 ppm, 6 Hours |
| | | 8.15 mg/l, 4 Hours |
| *Oral* | | |
| LD100 | Guinea pig | 2000 mg/kg |
| 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-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* | | |
| LC50 | Rat | > 5.07 mg/l, 4 Hours |
| *Oral* | | |
| 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 |

| 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 108-90-7) | | |
| **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* | | |
| LD50 | Mouse | 515 mg/kg |
| | Rat | 570 mg/kg |
| Ethylbenzene (CAS 100-41-4) | | |
| **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* | | |
| LD50 | Rat | 3500 mg/kg |
| | | 3.5 g/kg |
| *Other* | | |
| LD50 | Mouse | 2272 mg/kg |
| Methanol (CAS 67-56-1) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 15800 mg/kg |
| *Inhalation* | | |
| LC50 | Mouse | 79.43 mg/l, 134 Minutes |

| Components | Species | Test Results |
|---|---|---|
| | 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) | | |
| **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 |
| 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-Xylene (CAS 106-42-3) | | |
| **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* | | |
| LD50 | Mouse | 1590 mg/kg |
| | Rat | 3523 - 8600 mg/kg |

| Components | Species | Test Results |
|---|---|---|
| *Other* | | |
| LD50 | Rat | 3.8 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 |
| | 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* | | |
| LD50 | Rabbit | > 5000 mg/kg |
| | | 14.1 ml/kg |
| *Inhalation* | | |
| LC50 | Mouse | 6405 - 7436 ppm, 6 Hours |
| | | 5320 ppm, 8 Hours |
| | | 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* | | |
| LD50 | Rat | 2.6 g/kg |
| *Other* | | |
| LD50 | Mouse | 59 mg/kg |
| | Rat | 1332 mg/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. |
| m-Xylene (CAS 108-38-3) | 3 Not classifiable as to carcinogenicity 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. |
| 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. 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-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-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 |
| 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 |
| Chlorobenzene (CAS 108-90-7) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 4.1 - 4.9 mg/l, 96 hours |
| Ethylbenzene (CAS 100-41-4) | | | |
| **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 |
| 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 108-38-3) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 2.81 - 5 mg/l, 48 hours |

| Components | | Species | Test Results |
|---|---|---|---|
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 8.4 mg/l, 96 hours |
| o-Xylene (CAS 95-47-6) | | | |
| **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-Xylene (CAS 106-42-3) | | | |
| **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 (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-Dichlorobenzene | 3.43 |
| 1,3-Dichlorobenzene | 3.53 |
| 1,4-Dichlorobenzene | 3.44 |
| Benzene | 2.13 |
| Chlorobenzene | 2.89 |
| Ethylbenzene | 3.15 |
| Methanol | -0.77 |
| m-Xylene | 3.2 |
| o-Xylene | 3.12 |
| p-Xylene | 3.15 |
| Styrene | 2.95 |
| 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.

**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 |
| Methanol (CAS 67-56-1) | U154 |
| m-Xylene (CAS 108-38-3) | U239 |
| 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.

## 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** | II |
| **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** | Allowed. |
| **Cargo aircraft only** | Allowed. |

**IMDG**

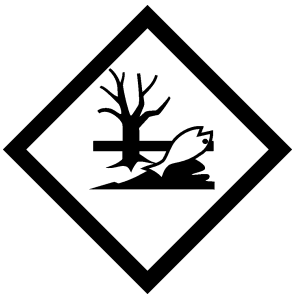
| | |
|---|---|
| **UN number** | UN1230 |
| **UN proper shipping name** | METHANOL SOLUTION, MARINE POLLUTANT |
| **Transport hazard class(es)** | |
| **Class** | 3 |
| **Subsidiary risk** | 6.1(PGI, II) |
| **Packing group** | II |
| **Environmental hazards** | |
| **Marine pollutant** | Yes |
| **EmS** | 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** Not available.

**DOT**

**IATA; IMDG**


**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-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. |
| Methanol (CAS 67-56-1) | Listed. |
| m-Xylene (CAS 108-38-3) | 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<br>Central nervous system<br>Blood<br>Aspiration<br>Skin<br>Eye<br>respiratory tract irritation<br>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 chemical**

No

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| Methanol | 67-56-1 | >98 |
| 1,4-Dichlorobenzene | 106-46-7 | 0.1 |

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| Benzene | 71-43-2 | 0.1 |
| Ethylbenzene | 100-41-4 | 0.1 |
| Styrene | 100-42-5 | 0.1 |

**Other federal regulations**

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

1,4-Dichlorobenzene (CAS 106-46-7)
Benzene (CAS 71-43-2)
Chlorobenzene (CAS 108-90-7)
Ethylbenzene (CAS 100-41-4)
Methanol (CAS 67-56-1)
m-Xylene (CAS 108-38-3)
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. Massachusetts RTK - Substance List**

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)
Methanol (CAS 67-56-1)
m-Xylene (CAS 108-38-3)
o-Xylene (CAS 95-47-6)
p-Xylene (CAS 106-42-3)
Styrene (CAS 100-42-5)
Toluene (CAS 108-88-3)

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

| | |
|---|---|
| 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 |
| Methanol (CAS 67-56-1) | 500 LBS |
| m-Xylene (CAS 108-38-3) | 500 LBS |
| o-Xylene (CAS 95-47-6) | 500 LBS |
| p-Xylene (CAS 106-42-3) | 500 LBS |
| Styrene (CAS 100-42-5) | 500 LBS |
| Toluene (CAS 108-88-3) | 500 LBS |

**US. Pennsylvania RTK - Hazardous Substances**

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)
Methanol (CAS 67-56-1)
m-Xylene (CAS 108-38-3)
o-Xylene (CAS 95-47-6)
p-Xylene (CAS 106-42-3)

Styrene (CAS 100-42-5)
Toluene (CAS 108-88-3)

**US. Rhode Island RTK**

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

**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 |
| 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) | Yes |
| 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** 10-22-2014

**Version #** 01

**NFPA ratings** Health: 2
Flammability: 3
Instability: 0

**Disclaimer**

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.



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