

Safety Data Sheet

DMO-3100

1. Product and company identification

| | |
|--|---|
| Product name | : DMO-3100 |
| Material uses | : Industrial applications: Demulsifiers |
| Internal code | : OFS0455 |
| System code | : OFS0455 |
| Supplier | : Bachman Services, Inc. 2220 S.Prospect Avenue Oklahoma City, OK 73129 |
| Information contact | : (800) 535-5053 [Emergency], (405) 677-8296 [Info] |
| e-mail address of person responsible for this SDS | : sdsinfo@innospecinc.com |

Emergency telephone number

In USA, Canada and North America, 24 hour / 7 day emergency information for our product is provided by the CHEMTREC® Emergency Call Center based in the USA

| | |
|--|-------------------------------------|
| Country information | : Emergency telephone number |
| USA, Canada, Puerto Rico, Virgin Islands | : +1 800 424 9300 |
| In case of difficulties, or for ships at sea | : +1 703 527 3887 |

In Europe, Middle East, Africa, Asia Pacific and South America 24 hour / 7 day emergency response for our products is provided by the NCEC CARECHEM 24 global network



| | | |
|--|-------------------------------------|-------------------|
| Country information | : Emergency telephone number | : Location |
| South America (all countries) | : +1 215 207 0061 | Philadelphia USA |
| Brazil | : +55 113 711 9144 | Brazil |
| Mexico | : +52 555 004 8763 | Mexico |
| Europe (all countries) Middle East, Africa (French, Portuguese, English) | : +44 (0) 1235 239 670 | London, UK |
| Middle East, Africa (Arabic, French, English) | : +44 (0) 1235 239 671 | Lebanon |
| Asia Pacific (all countries except China) | : +65 3158 1074 | Singapore |
| China | : +86 10 5100 3039 | Beijing China |

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (inhalation) - Category 4
 SKIN CORROSION/IRRITATION - Category 2
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
 CARCINOGENICITY - Category 1B

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapor.
 H302 + H332 - Harmful if swallowed or if inhaled.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H350 - May cause cancer.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P281 - Use personal protective equipment as required.
 P280 - Wear protective gloves. Wear eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P261 - Avoid breathing vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.

Response

: P308 + P313 - IF exposed or concerned: Get medical attention.
 P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
 P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P302 + P352 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.
 P332 + P313 - If skin irritation occurs: Get medical attention.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.

Section 2. Hazards identification

| | |
|---|--|
| Storage | : P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool. |
| Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazards not otherwise classified | : None known. |
| Target organs | : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, spleen, gastrointestinal tract, ears. |

See toxicological information (Section 11)

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name | % | CAS number |
|--|--------------|------------|
| Xylene | 30 - 60 | 1330-20-7 |
| ethylbenzene | 9.99 - 14.99 | 100-41-4 |
| Proprietary | Proprietary | - |
| Solvent naphtha (petroleum), heavy arom. | 4.99 - 9.99 | 64742-94-5 |
| propan-2-ol; isopropanol | 0.99 - 4.99 | 67-63-0 |
| Distillates (petroleum), hydrotreated heavy naphthenic | 0.99 - 4.99 | 64742-52-5 |
| naphthalene | 0.09 - 0.99 | 91-20-3 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

| | |
|---------------------|---|
| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |

Date of issue/Date of revision : 2015-07-23

Section 4. First aid measures

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : Harmful if inhaled.
Skin contact : Causes skin irritation.
Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
 pain or irritation
 watering
 redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
 irritation
 redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Flash point** : Closed cup: 11.7°C (53.1°F)

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use

Section 7. Handling and storage

explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--------------------------|--|
| Xylene | <p>ACGIH TLV (United States, 4/2014). TWA: 100 ppm, 0 times per shift, 8 hours. TWA: 434 mg/m³, 0 times per shift, 8 hours. STEL: 150 ppm, 0 times per shift, 15 minutes. STEL: 651 mg/m³, 0 times per shift, 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm, 0 times per shift, 8 hours. TWA: 435 mg/m³, 0 times per shift, 8 hours. STEL: 150 ppm, 0 times per shift, 15 minutes. STEL: 655 mg/m³, 0 times per shift, 15 minutes.</p> <p>OSHA PEL (United States, 2/2013). TWA: 100 ppm, 0 times per shift, 8 hours. TWA: 435 mg/m³, 0 times per shift, 8 hours.</p> |
| ethylbenzene | <p>ACGIH TLV (United States, 4/2014). TWA: 20 ppm, 0 times per shift, 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm, 0 times per shift, 8 hours. TWA: 435 mg/m³, 0 times per shift, 8 hours. STEL: 125 ppm, 0 times per shift, 15 minutes. STEL: 545 mg/m³, 0 times per shift, 15 minutes.</p> <p>NIOSH REL (United States, 10/2013). TWA: 100 ppm, 0 times per shift, 10 hours. TWA: 435 mg/m³, 0 times per shift, 10 hours. STEL: 125 ppm, 0 times per shift, 15 minutes. STEL: 545 mg/m³, 0 times per shift, 15 minutes.</p> <p>OSHA PEL (United States, 2/2013). TWA: 100 ppm, 0 times per shift, 8 hours. TWA: 435 mg/m³, 0 times per shift, 8 hours.</p> |
| propan-2-ol; isopropanol | <p>ACGIH TLV (United States, 4/2014). TWA: 200 ppm, 0 times per shift, 8 hours. STEL: 400 ppm, 0 times per shift, 15 minutes.</p> |

Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Clear. [Dark]
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : 82.2°C (180°F)
- Flash point** : Closed cup: 11.7°C (53.1°F)
- Evaporation rate** : 1.7
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Greatest known range: Lower: 2.3% Upper: 12.7% (isopropanol)
- Vapor pressure** : Highest known value: 4.4 kPa (33 mm Hg) (at 20°C) (isopropanol). Weighted average: 1.06 kPa (7.95 mm Hg) (at 20°C)
- Vapor density** : Highest known value: 4.6 to 5.5 (Air = 1) (Solvent naphtha (petroleum), heavy arom.). Weighted average: 3.69 (Air = 1)

Section 9. Physical and chemical properties

| | |
|---|--|
| Density | : 0.9024 g/cm ³ [15°C (59°F)] |
| Specific gravity | : Not available. |
| Density | : 7.53 lbs/gal |
| Solubility | : Insoluble in the following materials: cold water, hot water. |
| Partition coefficient: n-octanol/water | : Not available. |
| Auto-ignition temperature | : Lowest known value: 399°C (750.2°F) (isopropanol). |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): 0.25 cm ² /s (25 cSt) |
| Pour point | : -34.4°C |

Section 10. Stability and reactivity

| | |
|---|---|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidizing materials |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Test | Species | Result | Dose |
|--|------|-----------|-----------------|-------------------------|
| xylene | - | Rabbit | LD50 Dermal | 4320 mg/kg |
| | - | Rat | LD50 Oral | 4300 mg/kg |
| ethylbenzene | - | Mouse | LC50 Inhalation | 35500 mg/m ³ |
| | - | Rabbit | LC50 Inhalation | 4000 ppm |
| Solvent naphtha (petroleum), heavy arom. | - | Rabbit | LD50 Dermal | >5000 mg/kg |
| | - | Rat | LC50 Inhalation | >590 mg/m ³ |
| | - | Rabbit | Vapor | |
| | - | Rabbit | LD50 Dermal | >2 mL/kg |
| isopropanol | - | Rabbit | LD50 Dermal | 2000 mg/kg |
| | - | Rat | LDLo Oral | 5 mL/kg |
| | - | Rat | LD50 Oral | 5000 mg/kg |
| | - | Rat | LD50 Oral | 5000 mg/kg |
| naphthalene | - | Rat | LC50 Inhalation | >340 mg/m ³ |
| | - | Rat | Vapor | |
| | - | Rabbit | LD50 Dermal | >2000 mg/kg |
| | - | Rat | LD50 Dermal | >2500 mg/kg |
| - | Rat | LD50 Oral | 490 mg/kg | |

Potential chronic health effects

Not available.

Section 11. Toxicological information

Irritation/Corrosion

| Product/ingredient name | Test | Species | Result |
|--|------|------------------------------|----------------------------|
| xylene | - | Rabbit | Eyes - Severe irritant - |
| | - | Rat | Skin - Mild irritant - |
| ethylbenzene | - | Rabbit | Skin - Moderate irritant - |
| | - | Rabbit | Eyes - Severe irritant - |
| Solvent naphtha (petroleum), heavy arom. | - | Rabbit | Skin - Mild irritant - |
| | - | Rabbit | Skin - Mild irritant - |
| | - | Mammal - species unspecified | Eyes - Mild irritant - |
| isopropanol | - | Rabbit | Eyes - Moderate irritant - |
| | - | Rabbit | Eyes - Severe irritant - |
| | - | Rabbit | Skin - Mild irritant - |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Classification

| Product/ingredient name | OSHA | IARC | NTP |
|--------------------------|------|------|--|
| Xylene | - | 3 | - |
| ethylbenzene | - | 2B | - |
| propan-2-ol; isopropanol | - | 3 | - |
| naphthalene | - | 2B | Reasonably anticipated to be a human carcinogen. |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|--|------------|-------------------|------------------|
| Solvent naphtha (petroleum), heavy arom. | Category 3 | Not applicable. | Narcotic effects |
| propan-2-ol; isopropanol | Category 3 | Not applicable. | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Name | Result |
|--|--------------------------------|
| Xylene | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), heavy arom. | ASPIRATION HAZARD - Category 1 |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|--|---|----------|
| Xylene ethylbenzene | Acute LC50 3.3 mg/l | Fish | 96 hours |
| | Acute EC50 4600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 3600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 7.2 mg/l | Algae | 48 hours |
| | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/l | Fish | 96 hours |
| | Chronic NOEC <1000 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| Solvent naphtha (petroleum), heavy arom. | Chronic NOEC 6800 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute EC50 1 to 3 mg/l | Algae | 72 hours |
| propan-2-ol; isopropanol | Acute EC50 3 to 10 mg/l | Daphnia | 48 hours |
| | Acute LC50 2 to 5 mg/l | Fish | 96 hours |
| | Acute LC50 1400000 to 1950000 µg/l Marine water | Crustaceans - Crangon crangon | 48 hours |
| naphthalene | Acute LC50 6550 mg/l | Fish | 96 hours |
| | Acute EC50 1.96 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 2350 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 1.6 mg/l | Fish | 96 hours |

Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| Xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| Solvent naphtha (petroleum), heavy arom. | - | - | Inherent |
| propan-2-ol; isopropanol | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-------------|-----------|
| Xylene | 3.12 to 3.2 | 8.1 to 25.9 | low |
| ethylbenzene | 3.1 | - | low |
| Solvent naphtha (petroleum), heavy arom. | - | <100 | low |
| propan-2-ol; isopropanol | 0.05 | - | low |
| naphthalene | 3.3 | >100 | low |




Section 13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do

Section 13. Disposal considerations

not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | DOT Classification | IMDG | IATA |
|-----------------------------------|---|---|---|
| UN number | UN1993 | UN1993 | UN1993 |
| UN proper shipping name | Flammable liquids, n.o.s. (xylene, isopropanol) RQ (xylene, ethylbenzene) | FLAMMABLE LIQUID, N.O.S. (xylene, isopropanol) | Flammable liquid, n.o.s. (xylene, isopropanol) |
| Transport hazard class(es) | 3  | 3  | 3  |
| Packing group | II | II | II |
| Environmental hazards | No. | No. | No. |
| Additional information | <p>Reportable quantity 197.32 lbs / 89.582 kg [26.224 gal / 99.27 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> <p>Limited quantity Yes.</p> <p>Packaging instruction Passenger aircraft Quantity limitation: 5 L</p> <p>Cargo aircraft Quantity limitation: 60 L</p> <p>Special provisions IB2, T7, TP1, TP8, TP28</p> | <p>Emergency schedules (EmS) F-E, _S-E_</p> <p>Special provisions 274</p> | <p>The environmentally hazardous substance mark may appear if required by other transportation regulations.</p> <p>Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 353</p> <p>Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 364</p> <p>Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y341</p> <p>Special provisions A3</p> |

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: naphthalene; ethylbenzene

Clean Air Act Section 112 : Listed
(b) Hazardous Air Pollutants (HAPs)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : Fire hazard
 Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|--|--------------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Xylene | 30 - 60 | Yes. | No. | No. | Yes. | No. |
| ethylbenzene | 9.99 - 14.99 | Yes. | No. | No. | Yes. | Yes. |
| Proprietary | Proprietary | No. | No. | No. | Yes. | No. |
| Solvent naphtha (petroleum), heavy arom. | 4.99 - 9.99 | No. | No. | No. | Yes. | No. |
| propan-2-ol; isopropanol | 0.99 - 4.99 | Yes. | No. | No. | Yes. | No. |
| Distillates (petroleum), hydrotreated heavy naphthenic | 0.99 - 4.99 | No. | No. | No. | No. | Yes. |
| naphthalene | 0.09 - 0.99 | No. | No. | No. | Yes. | Yes. |

SARA 313

| | Product name | CAS number | % |
|--|--------------|------------|--------------|
| Form R - Reporting requirements | xylene | 1330-20-7 | 30 - 60 |
| | ethylbenzene | 100-41-4 | 9.99 - 14.99 |
| | isopropanol | 67-63-0 | 0.99 - 4.99 |
| | naphthalene | 91-20-3 | 0.09 - 0.99 |
| Supplier notification | xylene | 1330-20-7 | 30 - 60 |
| | ethylbenzene | 100-41-4 | 9.99 - 14.99 |
| | isopropanol | 67-63-0 | 0.99 - 4.99 |
| | naphthalene | 91-20-3 | 0.09 - 0.99 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: XYLENE; ISOPROPYL ALCOHOL
New York : The following components are listed: Naphthalene; Xylene (mixed)
New Jersey : The following components are listed: NAPHTHALENE; MOTH FLAKES; XYLENES; BENZENE, DIMETHYL-; ISOPROPYL ALCOHOL; 2-PROPANOL

Date of issue/Date of revision : 2015-07-23

Section 15. Regulatory information

- Pennsylvania** : The following components are listed: NAPHTHALENE; BENZENE, DIMETHYL-; 2-PROPANOL
- California Prop. 65** : **WARNING:** This product contains a chemical known to the State of California to cause cancer.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level | Contains : % or ppm |
|-----------------|--------|--------------|---|---------------------------------|---------------------|
| ethylbenzene | Yes. | No. | 41 µg/day (ingestion) 54 µg/day (inhalation) | No. | 9.99 - 14.99 |
| naphthalene | Yes. | No. | Yes. | No. | 0.09 - 0.99 |

International lists

National inventory

- Australia inventory (AICS)** : Not determined.
- Canada inventory** : All components are listed or exempted.
- China inventory (IECSC)** : Not determined.
- Europe inventory** : All components are listed or exempted.
- Japan inventory (ENCS)** : Not determined.
- New Zealand Inventory of Chemicals (NZIoC)** : Not determined.
- Philippines inventory (PICCS)** : Not determined.
- Korea inventory (KECI)** : Not determined.
- Taiwan inventory (TCSI)** : Not determined.
- United States inventory (TSCA 8b)** : All components are listed or exempted.

Our REACH (pre-) registrations DO NOT cover the following:

- The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and
 - The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our (pre-) registrations
- Customers and other third parties importing and/or re-importing our products into Europe will need either:
- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or
 - In the case of importation only, to make use of the "Only Representative" provisions, if available.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

| | | |
|------------------|---|---|
| Health | * | 2 |
| Flammability | | 3 |
| Physical hazards | | 0 |
| | | |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Date of issue/Date of revision : 2015-07-23

Section 16. Other information



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Classification according to Directive 67/548/EEC [DSD] or Classification according to Directive 1999/45/EC [DPD]

- Risk phrases** : R11- Highly flammable.
 R45- May cause cancer.
 R20/21- Also harmful by inhalation and in contact with skin.
 R38- Irritating to skin.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases** : S53- Avoid exposure - obtain special instructions before use.
 S36/37- Wear suitable protective clothing and gloves.

History

- Date of printing** : 2015-07-23
Date of issue/Date of revision : 2015-07-23
Date of previous issue : No previous validation
Version : 1
- Key to abbreviations** : ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 UN = United Nations

▣ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.