# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| **Product identifier** | **Phase III Refrigeration Oil Test Kit (L)(4320L)**<br>**(Part of 4320-W8 to be used in conjunction with Phase III Acid Test Reagent (S)(4320S)** |
| **Other means of identification** | Not available. |
| **Recommended use** | Refrigeration Oil Test Kit |
| **Recommended restrictions** | None known. |

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

| | |
|---|---|
| **Company name** | Nu-Calgon |
| **Address** | 2611 Schuetz Road<br>St. Louis, MO 63043<br>United States |
| **Telephone** | 314-469-7000 / 800-554-5499 |
| **E-mail** | Not available. |

| | |
|---|---|
| **Emergency phone number** | 1-800-424-9300 (CHEMTREC) |
| **Supplier** | See above. |

## 2. Hazard identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable liquids | Category 2 |
| **Health hazards** | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Reproductive toxicity | Category 1B |
| | Specific target organ toxicity, single exposure | Category 1 |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| | Specific target organ toxicity, repeated exposure | Category 2 |
| | Aspiration hazard | Category 1 |
| **Environmental hazards** | Not classified. | |
| **WHMIS 2015 defined hazards** | Not classified | |

**Label elements**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statement** | Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. |

**Precautionary statement**

**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.

| | |
|---|---|
| **Response** | In case of fire: Use appropriate media to extinguish. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF exposed or concerned: Get medical attention. |
| **Storage** | Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed. |
| **Disposal** | Dispose of container in accordance with local, regional, national and international regulations. |
| **WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)** | None known |
| **WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)** | None known |
| **Hazard(s) not otherwise classified (HNOC)** | None known. |
| **Supplemental information** | Not applicable. |

## 3. Composition/Information on ingredients

**Mixture**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Isopropanol | | 67-63-0 | 10-30* |
| Methanol | | 67-56-1 | 15-40* |
| Toluene | | 108-88-3 | 30-60* |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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|---|---|
| **Composition comments** | US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.<br>*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret. |

## 4. First-aid measures

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|---|---|
| **Inhalation** | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. |
| **Skin contact** | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label). |
| **Eye contact** | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| **Ingestion** | IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. |
| **Most important symptoms/effects, acute and delayed** | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged exposure may cause chronic effects. |
| **Indication of immediate medical attention and special treatment needed** | Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Symptoms may be delayed. |
| **General information** | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IF exposed or concerned: Get medical advice. Take off immediately all contaminated clothing and wash it before reuse. |

## 5. Fire-fighting measures

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|---|---|
| **Suitable extinguishing media** | Carbon dioxide. Alcohol foam. Water spray. Dry chemical. Fog. |
| **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. 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. |
| **Hazardous combustion products** | May include and are not limited to: Oxides of carbon. |

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ventilate closed spaces before entering them. 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. Stop the flow of material, if this is without risk.

Large Spills: 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. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

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

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

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

## 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. 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 during pregnancy/while nursing. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

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 and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep in an area equipped with sprinklers. Store locked up. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

## 8. Exposure controls/Personal protection

**Occupational exposure limits**

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | STEL | 984 mg/m3<br>400 ppm |
| | TWA | 492 mg/m3<br>200 ppm |
| Methanol (CAS 67-56-1) | STEL | 328 mg/m3<br>250 ppm |
| | TWA | 262 mg/m3<br>200 ppm |
| Toluene (CAS 108-88-3) | TWA | 188 mg/m3<br>50 ppm |

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | STEL | 400 ppm |
| | TWA | 200 ppm |
| Methanol (CAS 67-56-1) | STEL | 250 ppm |

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

| Components | Type | Value |
|---|---|---|
| | TWA | 200 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | STEL | 400 ppm |
| | TWA | 200 ppm |
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | STEL | 400 ppm |
| | TWA | 200 ppm |
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | STEL | 1230 mg/m3<br>500 ppm |
| | TWA | 983 mg/m3<br>400 ppm |
| Methanol (CAS 67-56-1) | STEL | 328 mg/m3<br>250 ppm |
| | TWA | 262 mg/m3<br>200 ppm |
| Toluene (CAS 108-88-3) | TWA | 188 mg/m3<br>50 ppm |

**Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | 15 minute | 400 ppm |
| | 8 hour | 200 ppm |
| Methanol (CAS 67-56-1) | 15 minute | 250 ppm |
| | 8 hour | 200 ppm |
| Toluene (CAS 108-88-3) | 15 minute | 60 ppm |
| | 8 hour | 50 ppm |

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

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | PEL | 980 mg/m3<br>400 ppm |
| Methanol (CAS 67-56-1) | PEL | 260 mg/m3<br>200 ppm |

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| Toluene (CAS 108-88-3) | Ceiling | 300 ppm |
| | TWA | 200 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | STEL | 400 ppm |
| | TWA | 200 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| Isopropanol (CAS 67-63-0) | STEL | 1225 mg/m3<br>500 ppm |
| | TWA | 980 mg/m3<br>400 ppm |
| Methanol (CAS 67-56-1) | STEL | 325 mg/m3<br>250 ppm |
| | TWA | 260 mg/m3<br>200 ppm |
| Toluene (CAS 108-88-3) | STEL | 560 mg/m3<br>150 ppm |
| | TWA | 375 mg/m3<br>100 ppm |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| Isopropanol (CAS 67-63-0) | 40 mg/L | Acetone | Urine | * |
| Methanol (CAS 67-56-1) | 15 mg/L | Methanol | Urine | * |
| 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**

**Canada - Alberta OELs: Skin designation**

| | |
|---|---|
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |
| Toluene (CAS 108-88-3) | Can be absorbed through the skin. |

**Canada - British Columbia OELs: Skin designation**

| | |
|---|---|
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |

**Canada - Manitoba OELs: Skin designation**

| | |
|---|---|
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |

**Canada - Ontario OELs: Skin designation**

| | |
|---|---|
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |

**Canada - Quebec OELs: Skin designation**

| | |
|---|---|
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |
| Toluene (CAS 108-88-3) | Can be absorbed through the skin. |

**Canada - Saskatchewan OELs: Skin designation**

| | |
|---|---|
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |
| Toluene (CAS 108-88-3) | Can be absorbed through the skin. |

**US ACGIH Threshold Limit Values: Skin designation**

| | |
|---|---|
| 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** 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.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Impervious gloves. Confirm with reputable supplier first.

**Other** Wear appropriate chemical resistant clothing.

| | |
|---|---|
| **Respiratory protection** | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). |
| **Thermal hazards** | Not applicable. |
| **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** | Clear |
| **Physical state** | Liquid. |
| **Form** | Liquid. |
| **Color** | Colorless |
| **Odor** | Characteristic |
| **Odor threshold** | Not available. |
| **pH** | Not available |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | 190 °F (87.78 °C) |
| **Pour point** | Not available. |
| **Specific gravity** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Flash point** | 41.0 °F (5.0 °C) |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available |
| **Flammability limit - upper (%)** | Not available |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | 0.9168 |
| **Solubility(ies)** | Complete |
| **Auto-ignition temperature** | Not available |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Bulk density** | 7.64 lbs/gallon |
| **VOC** | 100 % |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | This product may react with oxidizing agents. |
| **Possibility of hazardous reactions** | No dangerous reaction known under conditions of normal use. |
| **Chemical stability** | Material is stable under normal conditions. |
| **Conditions to avoid** | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals. |
| **Incompatible materials** | Strong oxidizing agents. Acids. Caustics. |
| **Hazardous decomposition products** | May include and are not limited to: Oxides of carbon. |

## 11. Toxicological information

| | |
|---|---|
| **Routes of exposure** | Inhalation. Ingestion. Skin contact. Eye contact. |

**Information on likely routes of exposure**

| | |
|---|---|
| **Ingestion** | May be fatal if swallowed and enters airways. |
| **Inhalation** | Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause damage to organs by inhalation. |
| **Skin contact** | Causes skin irritation. |
| **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. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. |

**Information on toxicological effects**

**Acute toxicity** May be fatal if swallowed and enters airways. Narcotic effects.

| Components | Species | Test Results |
|---|---|---|
| Isopropanol (CAS 67-63-0) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 13900 mg/kg, ECHA |
| *Inhalation* | | |
| LC50 | Rat | > 10000 ppm, 6 Hours, ECHA |
| | | 25000 mg/m³, 6 Hours, ECHA |
| | | 16970 mg/l/4h, HMIRA |
| *Oral* | | |
| LD50 | Rat | 5840 mg/kg, ECHA |
| Methanol (CAS 67-56-1) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 17100 mg/kg, ECHA |
| *Inhalation* | | |
| LC50 | Cat | 43700 mg/m³, 6 Hours, ECHA |
| *Oral* | | |
| LD50 | Rabbit | 14200 - 14400 mg/kg, RTECS |
| | Rat | 1187 - 2769 mg/kg, ECHA |
| Toluene (CAS 108-88-3) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 12267 mg/kg, ECHA |
| *Inhalation* | | |
| LC50 | Rat | > 20 mg/l/4h, ECHA |
| *Oral* | | |
| LD50 | Rat | 5580 mg/kg, ECHA |

| | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation. |
| **Exposure minutes** | Not available. |
| **Erythema value** | Not available. |
| **Oedema value** | Not available. |
| **Serious eye damage/eye irritation** | Causes serious eye irritation. |
| **Corneal opacity value** | Not available. |
| **Iris lesion value** | Not available. |
| **Conjunctival reddening value** | Not available. |
| **Conjunctival oedema value** | Not available. |
| **Recover days** | Not available. |
| **Respiratory or skin sensitization** | |
| **Respiratory sensitization** | Not available. |
| **Skin sensitization** | This product is not expected to cause skin sensitization. |

**Mutagenicity** Not available

**Carcinogenicity** Non-hazardous by WHMIS/OSHA criteria.

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Phenolphthalein (CAS 77-09-8)

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Toluene (CAS 108-88-3) Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not listed.

**Reproductive toxicity** May damage fertility or the unborn child.

**Teratogenicity** Not available.

**Specific target organ toxicity - single exposure** Causes damage to organs. Narcotic effects.

**Specific target organ toxicity - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.

## 12. Ecological information

**Ecotoxicity** See below

**Ecotoxicological data**

| Components | | Species | Test Results |
|---|---|---|---|
| Isopropanol (CAS 67-63-0) | | | |
| Algae | IC50 | Algae | 1000 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 13299 mg/L, 48 Hours |
| **Aquatic** | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 1400 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 |
| Toluene (CAS 108-88-3) | | | |
| Algae | IC50 | Algae | 433 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 7.645 mg/L, 48 Hours |
| **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 |

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

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Mobility in general** Not 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. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. 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** D001: Waste Flammable material with a flash point <140 F
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

**Transport of Dangerous Goods (TDG) Proof of Classification** Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

**U.S. Department of Transportation (DOT)**

**Basic shipping requirements:**

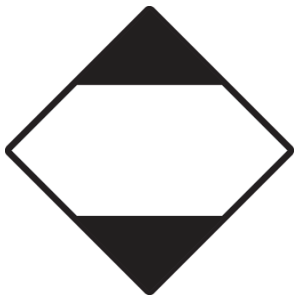
| | |
|---|---|
| **UN number** | UN1993 |
| **Proper shipping name** | Flammable liquids, n.o.s. |
| **Technical name** | Toluene |
| **Technical name** | Methanol |
| **Hazard class** | Limited Quantity - US |
| **Packing group** | II |
| **Special provisions** | IB2, T7, TP1, TP8, TP28 |
| **Packaging exceptions** | <0.3 g -Limited Quantity |

**Transportation of Dangerous Goods (TDG - Canada)**

**Basic shipping requirements:**

| | |
|---|---|
| **UN number** | UN1993 |
| **Proper shipping name** | FLAMMABLE LIQUID, N.O.S. |
| **Technical name** | Toluene |
| **Technical name** | Methanol |
| **Hazard class** | Limited Quantity - Canada |
| **Packing group** | II |
| **Special provisions** | 16, 150 |
| **Packaging exceptions** | <1L - Limited Quantity |

**DOT; TDG**



## 15. Regulatory information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number**

| | |
|---|---|
| Isopropanol (CAS 67-63-0) | 1 TONNES |
| Methanol (CAS 67-56-1) | 1 TONNES |
| Toluene (CAS 108-88-3) | 1 TONNES |

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

| | |
|---|---|
| Toluene (CAS 108-88-3) | Class B |

**WHMIS 2015 Exemptions** Not applicable

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

| | |
|---|---|
| Isopropanol (CAS 67-63-0) | Listed. |
| Methanol (CAS 67-56-1) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories**
Flammable (gases, aerosols, liquids, or solids)
Skin corrosion or irritation
Serious eye damage or eye irritation
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| Isopropanol | 67-63-0 | 10-30* |
| Methanol | 67-56-1 | 15-40* |
| Toluene | 108-88-3 | 30-60* |

**Other federal regulations**

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

Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)

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

Not regulated.

**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)**
Hazardous substance
Priority pollutant
Toxic pollutant

**US state regulations**

**US - California Hazardous Substances (Director's): Listed substance**

Isopropanol (CAS 67-63-0) Listed.
Methanol (CAS 67-56-1) Listed.
Toluene (CAS 108-88-3) Listed.

**US - Illinois Chemical Safety Act: Listed substance**

Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)

**US - Louisiana Spill Reporting: Listed substance**

Isopropanol (CAS 67-63-0) Listed.
Methanol (CAS 67-56-1) Listed.
Toluene (CAS 108-88-3) Listed.

**US - Michigan Critical Materials Register: Parameter number**

Toluene (CAS 108-88-3)

**US - Minnesota Haz Subs: Listed substance**

Isopropanol (CAS 67-63-0) Listed.
Methanol (CAS 67-56-1) Listed.
Toluene (CAS 108-88-3) Listed.

**US - North Carolina Toxic Air Pollutants: Listed substance**

Toluene (CAS 108-88-3)

**US - Texas Effects Screening Levels: Listed substance**

Isopropanol (CAS 67-63-0) Listed.
Methanol (CAS 67-56-1) Listed.
Toluene (CAS 108-88-3) Listed.

**US - Washington Chemical of High Concern to Children: Listed substance**

Toluene (CAS 108-88-3)

**US. Massachusetts RTK - Substance List**

Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)

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

Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)

**US. Rhode Island RTK**

Isopropanol (CAS 67-63-0)
Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)

**US. California Proposition 65**

**WARNING:** This product can expose you to chemicals including Phenolphthalein, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

| | |
|---|---|
| Phenolphthalein (CAS 77-09-8) | Listed: May 15, 1998 |

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

| | |
|---|---|
| Methanol (CAS 67-56-1) | Listed: March 16, 2012 |
| Toluene (CAS 108-88-3) | Listed: January 1, 1991 |

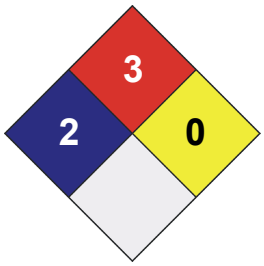
**Inventory status**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| 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)

## 16. Other information

| LEGEND | |
|---|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |


**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date** 24-April-2023

**Version #** 01

**Effective date** 24-April-2023

**Prepared by** Nu-Calgon Technical Service Phone: (314) 469-7000

**Further information** Not available.

**Other information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.