# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| **Product identifier** | **Degreasing Solvent LV (4083-83)** |
| **Other means of identification** | Not available. |
| **Recommended use** | Degreaser |
| **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** | info@nucalgon.com |

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

## 2. Hazard identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable aerosols | Category 1 |
| | Gases under pressure | Liquefied gas |
| **Health hazards** | Serious eye damage/eye irritation | Category 2A |
| | Germ cell mutagenicity | Category 1B |
| | Carcinogenicity | Category 1B |
| | Reproductive toxicity | Category 2 |
| | Specific target organ toxicity, repeated exposure | Category 2 |
| **Environmental hazards** | Not classified. | |
| **WHMIS 2015 defined hazards** | Not classified | |

**Label elements**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statement** | Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. 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. Do not spray on an open flame or other ignition source. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Do not pierce or burn, even after use. Do not breathe mist or vapor. |
| **Response** | IF exposed or concerned: Get medical attention.<br>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.<br>Get medical attention if you feel unwell. |
| **Storage** | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Store locked up.<br>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** | None. |

## 3. Composition/Information on ingredients

**Mixture**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Acetone | | 67-64-1 | 80-100* |
| Carbon dioxide | | 124-38-9 | 3-7* |
| Naphtha (petroleum), hydrotreated light | | 64742-49-0 | 5-10* |
| Toluene | | 108-88-3 | 1-5* |

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

**Composition comments**

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

## 4. First-aid measures

**Inhalation**

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Skin contact**

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**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**

Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.

**Most important symptoms/effects, acute and delayed**

Headache. Nausea, vomiting. Severe eye irritation. 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. Symptoms may be delayed.

**General information**

IF exposed or concerned: Get medical advice. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

## 5. Fire-fighting measures

**Suitable extinguishing media**

Dry chemical. Foam. Carbon dioxide.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

Contents under pressure. Pressurized container may explode when exposed to heat or flame. 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: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

**General fire hazards**

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

**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 people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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**

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. 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. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Do not discharge into lakes, streams, ponds or public waters.

## 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. Keep away from heat, sparks, open flames, hot surfaces. - No smoking. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not re-use empty containers. Do not breathe vapors or spray mist. Avoid contact with eyes, skin and clothing. Pregnant or breastfeeding women must not handle this product. Use only in well-ventilated areas. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

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

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture, incinerate or crush. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage.

## 8. Exposure controls/Personal protection

**Occupational exposure limits**

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

| Components | Type | Value |
|---|---|---|
| Acetone (CAS 67-64-1) | STEL | 1800 mg/m3<br>750 ppm |
| | TWA | 1200 mg/m3<br>500 ppm |
| Carbon dioxide (CAS 124-38-9) | STEL | 54000 mg/m3<br>30000 ppm |
| | TWA | 9000 mg/m3<br>5000 ppm |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | TWA | 1590 mg/m3<br>400 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 |
|---|---|---|
| Acetone (CAS 67-64-1) | STEL | 500 ppm |
| | TWA | 250 ppm |
| Carbon dioxide (CAS 124-38-9) | STEL | 15000 ppm |

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

| Components | Type | Value |
|---|---|---|
| | TWA | 5000 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

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

| Components | Type | Value |
|---|---|---|
| Acetone (CAS 67-64-1) | STEL | 500 ppm |
| | TWA | 250 ppm |
| Carbon dioxide (CAS 124-38-9) | STEL | 30000 ppm |
| | TWA | 5000 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

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

| Components | Type | Value |
|---|---|---|
| Acetone (CAS 67-64-1) | STEL | 500 ppm |
| | TWA | 250 ppm |
| Carbon dioxide (CAS 124-38-9) | STEL | 30000 ppm |
| | TWA | 5000 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

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

| Components | Type | Value |
|---|---|---|
| Acetone (CAS 67-64-1) | STEL | 2380 mg/m3<br>1000 ppm |
| | TWA | 1190 mg/m3<br>500 ppm |
| Carbon dioxide (CAS 124-38-9) | STEL | 54000 mg/m3<br>30000 ppm |
| | TWA | 9000 mg/m3<br>5000 ppm |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | TWA | 1590 mg/m3<br>400 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 |
|---|---|---|
| Acetone (CAS 67-64-1) | 15 minute | 750 ppm |
| | 8 hour | 500 ppm |
| Carbon dioxide (CAS 124-38-9) | 15 minute | 30000 ppm |
| | 8 hour | 5000 ppm |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | 15 minute | 500 ppm |
| | 8 hour | 400 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 |
|---|---|---|
| Acetone (CAS 67-64-1) | PEL | 2400 mg/m3<br>1000 ppm |

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

| Components | Type | Value |
|---|---|---|
| Carbon dioxide (CAS 124-38-9) | PEL | 9000 mg/m3 |
| | | 5000 ppm |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | PEL | 400 mg/m3 |
| | | 100 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 |
|---|---|---|
| Acetone (CAS 67-64-1) | STEL | 500 ppm |
| | TWA | 250 ppm |
| Carbon dioxide (CAS 124-38-9) | STEL | 30000 ppm |
| | TWA | 5000 ppm |
| Toluene (CAS 108-88-3) | TWA | 20 ppm |

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

| Components | Type | Value |
|---|---|---|
| Acetone (CAS 67-64-1) | TWA | 590 mg/m3<br>250 ppm |
| Carbon dioxide (CAS 124-38-9) | STEL | 54000 mg/m3 |
| | | 30000 ppm |
| | TWA | 9000 mg/m3<br>5000 ppm |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | TWA | 400 mg/m3 |
| | | 100 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 |
|---|---|---|---|---|
| Acetone (CAS 67-64-1) | 25 mg/L | Acetone | 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**

| | |
|---|---|
| Benzene (CAS 71-43-2) | Can be absorbed through the skin. |
| 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**

| | |
|---|---|
| Benzene (CAS 71-43-2) | Can be absorbed through the skin. |
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |

**Canada - Manitoba OELs: Skin designation**

| | |
|---|---|
| Benzene (CAS 71-43-2) | Can be absorbed through the skin. |
| Methanol (CAS 67-56-1) | Can be absorbed through the skin. |

**Canada - Ontario OELs: Skin designation**

| | |
|---|---|
| Benzene (CAS 71-43-2) | Can be absorbed through the skin. |
| 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**

| | |
|---|---|
| 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** 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. PVC gloves. Neoprene. Nitrile

**Other** Wear suitable protective clothing. Use of an impervious apron is recommended. As required by employer code.

**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 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. When using do not eat or drink.

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | Clear Liquid |
| **Physical state** | Gas. |
| **Form** | Aerosol. Spray |
| **Color** | Not available. |
| **Odor** | Sweet, Pungent |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | Not available. |
| **Pour point** | Not available. |
| **Specific gravity** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Flash point** | Not available. |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **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** | Not available. |
| **Solubility(ies)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Density** | 6.70609 lb/gal |
| **Explosive properties** | Not explosive. |
| **Oxidizing properties** | Not oxidizing. |
| **VOC** | 9.50390 % |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | This product may react with strong 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** | Heat. Do not mix with other chemicals. |
| **Incompatible materials** | Acids. Strong oxidizing agents. Reducing agents. Caustics. |
| **Hazardous decomposition products** | May include and are not limited to: Oxides of carbon. |

## 11. Toxicological information

| | |
|---|---|
| **Routes of exposure** | Eye, Skin contact, Inhalation, Ingestion. |
| **Information on likely routes of exposure** | |
| **Ingestion** | May cause stomach distress, nausea or vomiting. |
| **Inhalation** | May cause damage to organs through prolonged or repeated exposure by inhalation. Headache. Nausea, vomiting. |
| **Skin contact** | No adverse effects due to skin contact are expected. |
| **Eye contact** | Causes serious eye irritation. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |
| **Information on toxicological effects** | |
| **Acute toxicity** | Eye irritation |

| Components | Species | Test Results |
|---|---|---|
| Acetone (CAS 67-64-1) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 15800 mg/kg, Health Canada (HSA) |
| *Inhalation* | | |
| LC50 | Rat | 76 mg/l/4h, Health Canada (HSA) |
| *Oral* | | |
| LD50 | Rat | 5800 mg/kg, Health Canada (HSA) |
| Carbon dioxide (CAS 124-38-9) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Not available | |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Not available | |

| Components | Species | Test Results |
|---|---|---|
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 2000 mg/kg, 24 Hours, ECHA |
| *Inhalation* | | |
| LC50 | Rat | > 5610 mg/m3, 4 Hours, ECHA |
| *Oral* | | |
| LD50 | Rat | > 5000 mg/kg, ECHA |
| Toluene (CAS 108-88-3) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 5000 mg/kg, 24 Hours, ECHA |
| | | 12124 mg/kg, HSDB |
| *Inhalation* | | |
| LC50 | Rat | 30 mg/L, 4 Hours, ECHA |
| | | 28.1 mg/L, 4 Hours, ECHA |
| | | 25.7 mg/L, 4 Hours, ECHA |
| *Oral* | | |
| LD50 | Rat | > 5000 mg/kg, ECHA |
| | | 5580 mg/kg, ECHA |
| | | 2.6 g/kg, HSDB |

**Skin corrosion/irritation** Prolonged skin contact may cause temporary 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 a respiratory sensitizer.

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

**Mutagenicity** May cause genetic defects.

**Carcinogenicity** May cause cancer. See below.

**ACGIH Carcinogens**

Benzene (CAS 71-43-2) A1 Confirmed human carcinogen.

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

Benzene (CAS 71-43-2)

**Canada - Alberta OELs: Carcinogen category**

Benzene (CAS 71-43-2) Confirmed human carcinogen.

**Canada - Manitoba OELs: carcinogenicity**

Benzene (CAS 71-43-2) Confirmed human carcinogen.

**Canada - Quebec OELs: Carcinogen category**

Benzene (CAS 71-43-2) Detected carcinogenic effect in humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Benzene (CAS 71-43-2) Volume 29, Supplement 7, Volume 100F, Volume 120 - 1 Carcinogenic to humans.

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

Xylene (CAS 1330-20-7) Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

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

Benzene (CAS 71-43-2) Cancer

**US NTP Report on Carcinogens: Known carcinogen**

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**Teratogenicity** Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects (effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were observed in the absence of maternal toxicity.

**Specific target organ toxicity - single exposure** Not available.

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

**Aspiration hazard** Not an aspiration hazard.

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

## 12. Ecological information

**Ecotoxicity** See below

**Ecotoxicological data**

| Components | | Species | Test Results |
|---|---|---|---|
| Acetone (CAS 67-64-1) | | | |
| Crustacea | EC50 | Daphnia | 13999 mg/L, 48 Hours |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10294 - 17704 mg/L, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/L, 96 hours |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 2.7 - 5.1 mg/L, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 8.8 mg/L, 96 hours |
| | | | 8.8 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**

**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. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## 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** | UN1950 |
| **Proper shipping name** | Aerosols, flammable, (each not exceeding 1 L capacity) |
| **Hazard class** | Limited Quantity - US |
| **Packaging exceptions** | 306 |

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

**Basic shipping requirements:**

| | |
|---|---|
| **UN number** | UN1950 |
| **Proper shipping name** | AEROSOLS, flammable |
| **Hazard class** | Limited Quantity - Canada |

**IATA/ICAO (Air)**

**Basic shipping requirements:**

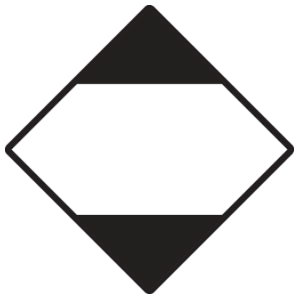
| | |
|---|---|
| **UN number** | UN1950 |
| **Proper shipping name** | Aerosols, flammable |
| **Hazard class** | 2.1 |

**IMDG (Marine Transport)**

**Basic shipping requirements:**

| | |
|---|---|
| **UN number** | UN1950 |
| **Proper shipping name** | AEROSOLS |
| **Hazard class** | 2 |

**DOT; TDG**



**IATA; IMDG**


## 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 CEPA Schedule I: Listed substance**

| | |
|---|---|
| Benzene (CAS 71-43-2) | Listed. |
| Carbon dioxide (CAS 124-38-9) | Listed. |

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

| | |
|---|---|
| Benzene (CAS 71-43-2) | 1 TONNES |
| Heptane (CAS 142-82-5) | 1 TONNES |
| Methanol (CAS 67-56-1) | 1 TONNES |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | 1 TONNES |
| Toluene (CAS 108-88-3) | 1 TONNES |
| Xylene (CAS 1330-20-7) | 1 TONNES |

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

Not listed.

**Greenhouse Gases**

Carbon dioxide (CAS 124-38-9)

**Precursor Control Regulations**

| | |
|---|---|
| Acetone (CAS 67-64-1) | Class B |
| 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)**

| | |
|---|---|
| Acetone (CAS 67-64-1) | Listed. |
| Benzene (CAS 71-43-2) | Listed. |
| Heptane (CAS 142-82-5) | Listed. |
| Methanol (CAS 67-56-1) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

**SARA 304 Emergency release notification**

Not regulated.

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

| | |
|---|---|
| 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)**

**SARA 302 Extremely hazardous substance** No

**Classified hazard categories**

Flammable (gases, aerosols, liquids, or solids)
Serious eye damage or eye irritation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| Toluene | 108-88-3 | 1-5* |

**Other federal regulations**

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

Benzene (CAS 71-43-2)
Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

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

Not regulated.

**US state regulations** See below

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

| | |
|---|---|
| Acetone (CAS 67-64-1) | Listed. |
| Benzene (CAS 71-43-2) | Listed. |
| Carbon dioxide (CAS 124-38-9) | Listed. |
| Heptane (CAS 142-82-5) | Listed. |
| Methanol (CAS 67-56-1) | Listed. |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

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

Acetone (CAS 67-64-1)
Benzene (CAS 71-43-2)

Heptane (CAS 142-82-5)
Methanol (CAS 67-56-1)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

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

| | |
|---|---|
| Acetone (CAS 67-64-1) | Listed. |
| Benzene (CAS 71-43-2) | Listed. |
| Heptane (CAS 142-82-5) | Listed. |
| Methanol (CAS 67-56-1) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

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

Benzene (CAS 71-43-2)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

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

| | |
|---|---|
| Acetone (CAS 67-64-1) | Listed. |
| Benzene (CAS 71-43-2) | Listed. |
| Carbon dioxide (CAS 124-38-9) | Listed. |
| Heptane (CAS 142-82-5) | Listed. |
| Methanol (CAS 67-56-1) | Listed. |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

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

Benzene (CAS 71-43-2)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

**US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant**

Carbon dioxide (CAS 124-38-9)

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

| | |
|---|---|
| Acetone (CAS 67-64-1) | Listed. |
| Benzene (CAS 71-43-2) | Listed. |
| Carbon dioxide (CAS 124-38-9) | Listed. |
| Heptane (CAS 142-82-5) | Listed. |
| Methanol (CAS 67-56-1) | Listed. |
| Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

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

Benzene (CAS 71-43-2)
Toluene (CAS 108-88-3)

**US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1)
Benzene (CAS 71-43-2)
Carbon dioxide (CAS 124-38-9)
Heptane (CAS 142-82-5)
Methanol (CAS 67-56-1)
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

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

Acetone (CAS 67-64-1)
Benzene (CAS 71-43-2)
Carbon dioxide (CAS 124-38-9)
Heptane (CAS 142-82-5)
Methanol (CAS 67-56-1)
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

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

Acetone (CAS 67-64-1)
Benzene (CAS 71-43-2)
Carbon dioxide (CAS 124-38-9)
Heptane (CAS 142-82-5)
Methanol (CAS 67-56-1)

Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

**US. Rhode Island RTK**

Acetone (CAS 67-64-1)
Benzene (CAS 71-43-2)
Carbon dioxide (CAS 124-38-9)
Heptane (CAS 142-82-5)
Methanol (CAS 67-56-1)
Naphtha (petroleum), hydrotreated light (CAS 64742-49-0)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

**US. California Proposition 65**

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

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

| | |
|---|---|
| Benzene (CAS 71-43-2) | Listed: February 27, 1987 |

**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 |

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

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

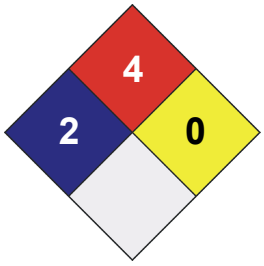
**Inventory status**

| 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** 25-March-2023

**Version #** 02

**Effective date** 25-March-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.