



# SAFETY DATA SHEET

## DOW CHEMICAL CANADA ULC

**Product name:** XIAMETER™ OFX-0531 Fluid

**Issue Date:** 08/19/2026

**Print Date:** 08/20/2026

DOW CHEMICAL CANADA ULC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

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## 1. IDENTIFICATION

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**Product name:** XIAMETER™ OFX-0531 Fluid

**Other means of identification:** No data available

### **Recommended use of the chemical and restrictions on use**

**Identified uses:** Additives

### **COMPANY IDENTIFICATION**

DOW CHEMICAL CANADA ULC  
#2400, 215 - 2ND STREET S.W.  
CALGARY AB T2P 1M4  
CANADA

**Customer Information Number:**

800-258-2436  
SDSQuestion@dow.com

### **EMERGENCY TELEPHONE NUMBER**

**24-Hour Emergency Contact (transportation emergencies only):** 1-800-424-9300

**Local Emergency Contact (transportation emergencies only):** 1-800-424-9300

**24-Hour Emergency Contact:** 1-989-636-4400

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## 2. HAZARDS IDENTIFICATION

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### **Hazard classification**

This product is hazardous under the criteria of the Hazardous Products Regulation (HPR) as implemented under the Workplace Hazardous Materials Information System (WHMIS 2015).

Flammable liquids - Category 2

Skin irritation - Category 2

Eye irritation - Category 2A

Specific target organ toxicity - repeated exposure - Category 1 - Inhalation

### **Label elements**

**Hazard pictograms**



Signal word: **DANGER!**

**Hazards**

|      |                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                                                                 |
| H315 | Causes skin irritation.                                                                             |
| H319 | Causes serious eye irritation.                                                                      |
| H372 | Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled. |

**Precautionary statements****Prevention**

|      |                                                                                                      |
|------|------------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.       |
| P233 | Keep container tightly closed.                                                                       |
| P240 | Ground and bond container and receiving equipment.                                                   |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment.                                  |
| P242 | Use non-sparking tools.                                                                              |
| P243 | Take action to prevent static discharges.                                                            |
| P260 | Do not breathe mist or vapours.                                                                      |
| P264 | Wash skin thoroughly after handling.                                                                 |
| P270 | Do not eat, drink or smoke when using this product.                                                  |
| P280 | Wear protective gloves, protective clothing, eye protection, face protection and hearing protection. |

**Response**

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.                                     |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P314               | Get medical attention if you feel unwell.                                                                                        |
| P332 + P313        | If skin irritation occurs: Get medical attention.                                                                                |
| P337 + P313        | If eye irritation persists: Get medical attention.                                                                               |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.                                                                         |
| P370 + P378        | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.                                             |

**Storage**

|             |                                              |
|-------------|----------------------------------------------|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
|-------------|----------------------------------------------|

**Disposal**

|      |                                                                        |
|------|------------------------------------------------------------------------|
| P501 | Dispose of contents and container to an approved waste disposal plant. |
|------|------------------------------------------------------------------------|

**Other hazards**

No data available

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**Chemical nature:** Aminofunctional Siloxane

This product is a mixture.

| Chemical name                                                            | Common name and synonym                                                                         | CASRN      | Concentration (w/w)   |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------|-----------------------|
| Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated | Siloxanes and Silicones, di-Me, [[[3-[(2-aminoethyl)amino]propyl]dimethoxysilyl]oxy]-terminated | 71750-80-6 | >= 46.0 - <= 51.0 %   |
| Mineral Spirits                                                          | Stoddard solvent (Distillation 170°-190°C)                                                      | 8052-41-3  | >= 34.0 - <= 36.0 %   |
| Isopropanol                                                              | propan-2-ol                                                                                     | 67-63-0    | >= 14.0 - <= 16.0 %   |
| Trimethylbenzene (mixed isomers)                                         | Trimethylbenzene (mixed isomers)                                                                | 25551-13-7 | >= 1.0 - <= 2.5 %     |
| Ethyltoluene                                                             | Not available                                                                                   | 25550-14-5 | >= 1.0 - <= 2.5 %     |
| Methanol                                                                 | Methanol                                                                                        | 67-56-1    | >= 1.2 - <= 1.6 %     |
| Nonane                                                                   | nonane                                                                                          | 111-84-2   | >= 0.17 - <= 0.54 %   |
| Octamethyl Cyclotetrasiloxane                                            | octamethylcyclotetrasiloxane; D4                                                                | 556-67-2   | >= 0.024 - <= 0.035 % |

## 4. FIRST AID MEASURES

### Description of first aid measures

#### General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

**Skin contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention without delay. Wash clothing before reuse. Properly dispose of contaminated leather items, such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.

**Eye contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

**Most important symptoms and effects, both acute and delayed:**

Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure if inhaled.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** In cases where several ounces (60 - 100 ml) have been ingested, consider the use of ethanol and hemodialysis in the treatment. Consult standard literature for details of treatment. If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150 mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or methanol intoxication if available. Fomepizole protocol (Brent, J. et al., New England Journal of Medicine, Feb. 8, 2001, 344:6, p. 424-9): loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Maintain adequate ventilation and oxygenation of the patient. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Hemodialysis may be of benefit if substantial amounts have been ingested and the patient is showing signs of intoxication. Consider hemodialysis for patients with persistent hypotension or coma unresponsive to standard therapy (isopropanol levels >400 - 500 mg/dl). (Goldfrank, Toxicological Emergencies 7th ed., 2002; King, JAMA, 1970, 211:1855). If lavage is performed, suggest endotracheal and esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.

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## 5. FIREFIGHTING MEASURES

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### Extinguishing media

**Suitable extinguishing media:** Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry sand.

**Unsuitable extinguishing media:** High volume water jet. Do not use direct water stream..

### Special hazards arising from the substance or mixture

**Hazardous combustion products:** Carbon oxides.

**Unusual Fire and Explosion Hazards:** Flash back possible over considerable distance.. Exposure to combustion products may be a hazard to health.. Flammable concentrations of vapor can accumulate at temperatures above flash point; see Section 9.. Flammable mixtures may exist within the vapor space of containers at room temperature.. Closed containers may

rupture via pressure build-up when exposed to fire or extreme heat.. Vapours may form explosive mixtures with air..

#### Advice for firefighters

**Fire Fighting Procedures:** Use water spray to cool unopened containers.. Evacuate area.. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.. Do not use a solid water stream as it may scatter and spread fire.. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.. Use personal protective equipment..

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## 6. ACCIDENTAL RELEASE MEASURES

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#### Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition. Ventilate the area. Use personal protective equipment. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Ground and bond all containers and handling equipment. Vapor explosion hazard. Keep out of sewers. Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:** Do not release the product to the aquatic environment above defined regulatory levels. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up:** Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. Clean up remaining materials from spill with suitable absorbant. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. See sections: 7, 8, 11, 12 and 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. Non-sparking tools should be used. Handle in accordance with good industrial hygiene and safety practice. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.

Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation. Ground and bond container and receiving equipment.

**Conditions for safe storage:** Keep in properly labelled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Do not store with the following product types: Strong oxidizing agents. Organic peroxides. Flammable solids. Pyrophoric liquids. Pyrophoric solids. Self-heating substances and mixtures. Substances and mixtures, which in contact with water, emit flammable gases. Explosives. Gases. Unsuitable materials for containers: None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Consult local authorities for recommended exposure limits.

| Component                        | Regulation                                                                                                           | Type of listing | Value             |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|
| Mineral Spirits                  | ACGIH                                                                                                                | TWA             | 100 ppm           |
|                                  | CA AB OEL                                                                                                            | TWA             | 572 mg/m3 100 ppm |
|                                  | CA BC OEL                                                                                                            | TWA             | 290 mg/m3         |
|                                  | CA BC OEL                                                                                                            | STEL            | 580 mg/m3         |
|                                  | CA ON OEL                                                                                                            | TWAEV           | 525 mg/m3         |
|                                  | Further information: 1: As sum of components assayed by chromatographic procedure with reference to the bulk sample. |                 |                   |
|                                  | CA QC OEL                                                                                                            | TWAEV           | 525 mg/m3 100 ppm |
|                                  | CA ON OEL                                                                                                            | TWAEV           | 525 mg/m3         |
|                                  | CA ON OEL                                                                                                            | TWA             | 525 mg/m3         |
| Isopropanol                      | ACGIH                                                                                                                | TWA             | 200 ppm           |
|                                  | Further information: A4: Not classifiable as a human carcinogen                                                      |                 |                   |
|                                  | ACGIH                                                                                                                | STEL            | 400 ppm           |
|                                  | Further information: A4: Not classifiable as a human carcinogen                                                      |                 |                   |
|                                  | CA AB OEL                                                                                                            | TWA             | 492 mg/m3 200 ppm |
|                                  | CA AB OEL                                                                                                            | STEL            | 984 mg/m3 400 ppm |
|                                  | CA BC OEL                                                                                                            | TWA             | 200 ppm           |
|                                  | CA BC OEL                                                                                                            | STEL            | 400 ppm           |
|                                  | CA QC OEL                                                                                                            | TWAEV           | 200 ppm           |
|                                  | CA QC OEL                                                                                                            | STEV            | 400 ppm           |
| Trimethylbenzene (mixed isomers) | ACGIH                                                                                                                | TWA             | 10 ppm            |

|                                  |                                                                                                 |       |                     |
|----------------------------------|-------------------------------------------------------------------------------------------------|-------|---------------------|
|                                  | US WEEL                                                                                         | TWA   | 2 ppm               |
|                                  | Further information: Skin                                                                       |       |                     |
|                                  | US WEEL                                                                                         | STEL  | 5 ppm               |
|                                  | Further information: Skin                                                                       |       |                     |
|                                  | Dow IHG                                                                                         | TWA   | 10 ppm              |
|                                  | Dow IHG                                                                                         | STEL  | 25 ppm              |
|                                  | CA BC OEL                                                                                       | TWA   | 10 ppm              |
|                                  | CA AB OEL                                                                                       | TWA   | 123 mg/m3 25 ppm    |
|                                  | CA QC OEL                                                                                       | TWAEV | 25 ppm              |
|                                  | Further information: S: Sensitizer                                                              |       |                     |
| Ethyltoluene                     | Dow IHG                                                                                         | TWA   | 10 ppm              |
| Methanol                         | ACGIH                                                                                           | TWA   | 200 ppm             |
|                                  | Further information: Skin: Danger of cutaneous absorption                                       |       |                     |
|                                  | ACGIH                                                                                           | STEL  | 250 ppm             |
|                                  | Further information: Skin: Danger of cutaneous absorption                                       |       |                     |
|                                  | CA AB OEL                                                                                       | TWA   | 262 mg/m3 200 ppm   |
|                                  | Further information: 1: Substance may be readily absorbed through intact skin                   |       |                     |
|                                  | CA AB OEL                                                                                       | STEL  | 328 mg/m3 250 ppm   |
|                                  | Further information: 1: Substance may be readily absorbed through intact skin                   |       |                     |
|                                  | CA BC OEL                                                                                       | TWA   | 200 ppm             |
|                                  | Further information: Skin: Contributes significantly to the overall exposure by the skin route. |       |                     |
|                                  | CA BC OEL                                                                                       | STEL  | 250 ppm             |
|                                  | Further information: Skin: Contributes significantly to the overall exposure by the skin route. |       |                     |
|                                  | CA QC OEL                                                                                       | TWAEV | 262 mg/m3 200 ppm   |
|                                  | Further information: Pc: Skin (percutaneous)                                                    |       |                     |
|                                  | CA QC OEL                                                                                       | STEV  | 328 mg/m3 250 ppm   |
|                                  | Further information: Pc: Skin (percutaneous)                                                    |       |                     |
| Nonane                           | ACGIH                                                                                           | TWA   | 200 ppm             |
|                                  | US WEEL                                                                                         | TWA   | 2 ppm               |
|                                  | Further information: Skin                                                                       |       |                     |
|                                  | US WEEL                                                                                         | STEL  | 5 ppm               |
|                                  | Further information: Skin                                                                       |       |                     |
|                                  | CA AB OEL                                                                                       | TWA   | 1,050 mg/m3 200 ppm |
|                                  | CA QC OEL                                                                                       | TWAEV | 1,050 mg/m3 200 ppm |
|                                  | CA BC OEL                                                                                       | TWA   | 200 ppm             |
| Octamethyl<br>Cyclotetrasiloxane | US WEEL                                                                                         | TWA   | 10 ppm              |

The following substance(s), which have Occupational Exposure Limit(s) (OEL), may be formed during handling or processing:, Methanol.

#### Biological occupational exposure limits

| Components  | CAS-No. | Control parameters | Biological specimen | Sampling time                   | Permissible concentration | Basis        |
|-------------|---------|--------------------|---------------------|---------------------------------|---------------------------|--------------|
| Isopropanol | 67-63-0 | Acetone            | Urine               | End of shift at end of workweek | 40 mg/l                   | ACGIH<br>BEI |
| Methanol    | 67-56-1 | Methanol           | Urine               | End of shift (As soon as        | 15 mg/l                   | ACGIH<br>BEI |

possible  
after  
exposure  
ceases)

### Exposure controls

**Engineering controls:** Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

### Individual protection measures

**Eye/face protection:** Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

#### Skin protection

**Hand protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Respiratory protection:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply. For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

|                |                |
|----------------|----------------|
| Physical state | liquid         |
| Color          | Straw-coloured |

|      |              |
|------|--------------|
| Odor | solvent-like |
|------|--------------|

|                |                   |
|----------------|-------------------|
| Odor Threshold | No data available |
|----------------|-------------------|

|    |                                                        |
|----|--------------------------------------------------------|
| pH | Not applicable, substance/mixture is non-polar/aprotic |
|----|--------------------------------------------------------|

### Melting point/freezing point

|                      |                   |
|----------------------|-------------------|
| Melting point/ range | No data available |
|----------------------|-------------------|

|                |                   |
|----------------|-------------------|
| Freezing point | No data available |
|----------------|-------------------|

Boiling point, initial boiling point and boiling range

|                                                    |                                                          |
|----------------------------------------------------|----------------------------------------------------------|
| Boiling point (760 mmHg)                           | > 55 °C                                                  |
| Flash point                                        | Seta closed cup 13 °C                                    |
| Evaporation Rate (Butyl Acetate = 1)               | No data available                                        |
| Flammability                                       |                                                          |
| Flammability (solid, gas)                          | Not applicable                                           |
| Flammability (liquids)                             | No data available                                        |
| Upper/lower flammability or explosive limits       |                                                          |
| Lower explosion limit                              | 2 % vol                                                  |
| Upper explosion limit                              | 12 % vol                                                 |
| Vapor Pressure                                     | No data available                                        |
| Relative vapour density                            |                                                          |
| Relative Vapor Density (air = 1)                   | No data available                                        |
| Density and / or relative density                  |                                                          |
| Relative Density (water = 1)                       | 0.865                                                    |
| Solubility(ies)                                    |                                                          |
| Water solubility                                   | No data available                                        |
| Partition coefficient: n-octanol/water (log value) | No data available                                        |
| Auto-ignition temperature                          | > 230 °C                                                 |
| Decomposition temperature                          | No data available                                        |
| Kinematic Viscosity                                | 160 mm <sup>2</sup> /s at 25 °C                          |
| Explosive properties                               | Not explosive                                            |
| Oxidizing properties                               | The substance or mixture is not classified as oxidizing. |
| Molecular weight                                   | No data available                                        |
| Particle characteristics                           |                                                          |
| Particle size                                      | not applicable                                           |

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** Not classified as a reactivity hazard.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Can react with strong oxidizing agents. Vapours may form explosive mixture with air. Highly flammable liquid and vapour.

**Conditions to avoid:** Avoid static discharge. Heat, flames and sparks.

**Incompatible materials:** Avoid contact with oxidizing materials.

**Hazardous decomposition products:**

Decomposition products can include and are not limited to: Formaldehyde. Methanol.

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data are available.*

### Information on likely routes of exposure

Inhalation, Eye contact, Skin contact, Ingestion.

**Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)**

### Acute Toxicity Endpoints:

Not classified based on available information.

### Acute oral toxicity

#### Information for the Product:

Very low toxicity if swallowed. Methanol, a component in this mixture, is highly toxic to humans and may cause central nervous system effects, visual disturbances up to blindness, metabolic acidosis, and degenerative damage to other organs including liver, kidney, and heart. Signs and symptoms of excessive exposure may include: Facial flushing. Low blood pressure. Irregular heartbeats. May cause nausea and vomiting. Effects may be delayed. As product: Single dose oral LD50 has not been determined.

#### Information for components:

##### **Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

Single dose oral LD50 has not been determined.

This substance may hydrolyze to release Methanol. Methanol is highly toxic to humans and may cause central nervous system effects, visual disturbances up to blindness, metabolic acidosis, and degenerative damage to other organs including liver, kidney, and heart.

##### **Mineral Spirits**

LD50, Rat, male and female, > 5,000 mg/kg OECD 401 or equivalent

##### **Isopropanol**

May cause central nervous system depression. Signs and symptoms of excessive exposure may include: Facial flushing. Low blood pressure. Irregular heartbeats. May cause nausea and vomiting.

LD50, Rat, 4,700 mg/kg

ALD - Approximate Lethal Dose, Humans, 100 ml Estimated.

##### **Trimethylbenzene (mixed isomers)**

LD50, Rat, 8,970 mg/kg

##### **Ethyltoluene**

LD50, Rat, > 5,000 mg/kg

##### **Methanol**

Methanol is highly toxic to humans and may cause central nervous system effects, visual disturbances up to blindness, metabolic acidosis, and degenerative damage to other organs including liver, kidney, and heart. Effects may be delayed. LD50, Rat, > 5,000 mg/kg

ALD - Approximate Lethal Dose, Humans, 340 mg/kg Estimated.

ALD - Approximate Lethal Dose, Humans, 29 - 237 ml Estimated.

#### **Nonane**

Single dose oral LD50 has not been determined.

For similar material(s): LD50, Rat, male and female, > 5,000 mg/kg No deaths occurred at this concentration.

#### **Octamethyl Cyclotetrasiloxane**

LD50, Rat, male, > 4,800 mg/kg No deaths occurred at this concentration.

### **Acute dermal toxicity**

#### **Information for the Product:**

Prolonged skin contact is unlikely to result in absorption of harmful amounts. Effects of methanol are the same as observed via oral and inhalation exposure and include central nervous system (CNS) depression, visual impairment up to blindness, metabolic acidosis, with effects on organ systems such as liver, kidneys and heart, even death.  
As product: The dermal LD50 has not been determined.

#### **Information for components:**

##### **Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

The dermal LD50 has not been determined.

This substance may hydrolyze to release Methanol. Effects of methanol are the same as observed via oral and inhalation exposure and include central nervous system (CNS) depression, visual impairment up to blindness, metabolic acidosis, with effects on organ systems such as liver, kidneys and heart, even death.

##### **Mineral Spirits**

LD50, Rabbit, male and female, > 3,000 mg/kg OECD 402 or equivalent No deaths occurred at this concentration.

##### **Isopropanol**

LD50, Rabbit, 6,280 mg/kg

##### **Trimethylbenzene (mixed isomers)**

The dermal LD50 has not been determined.

##### **Ethyltoluene**

The dermal LD50 has not been determined.

##### **Methanol**

Effects of methanol are the same as observed via oral and inhalation exposure and include central nervous system (CNS) depression, visual impairment up to blindness,

metabolic acidosis, with effects on organ systems such as liver, kidneys and heart, even death. LD50, Rabbit, 15,800 mg/kg

#### **Nonane**

The dermal LD50 has not been determined.

For similar material(s): LD50, Rabbit, male and female, > 2,000 mg/kg No deaths occurred at this concentration.

#### **Octamethyl Cyclotetrasiloxane**

LD50, Rat, male and female, > 2,400 mg/kg No deaths occurred at this concentration.

### **Acute inhalation toxicity**

#### **Information for the Product:**

Prolonged excessive exposure may cause adverse effects. Excessive exposure may cause irritation to upper respiratory tract (nose and throat). May cause central nervous system effects. Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconsciousness. Observations in animals include middle ear lining damage upon exposure to vapors of isopropanol. However, the relevance of this to humans is unknown. Excessive exposure (400 ppm) to isopropanol may cause eye, nose and throat irritation. Incoordination, confusion, hypotension, hypothermia, circulatory collapse, respiratory arrest and death may follow a longer duration or higher levels.

As product: The LC50 has not been determined.

#### **Information for components:**

##### **Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

No adverse effects are anticipated from single exposure to mist.

The LC50 has not been determined.

This substance may hydrolyze to release Methanol. Inhalation of methanol may cause effects ranging from headache, narcosis and visual impairment to metabolic acidosis, blindness, and even death.

##### **Mineral Spirits**

LC50, Rat, male and female, 4 Hour, vapour, > 5.5 mg/l No deaths occurred at this concentration.

##### **Isopropanol**

LC50, Rat, male and female, 6 Hour, vapour, > 10000 ppm

##### **Trimethylbenzene (mixed isomers)**

Vapor concentrations are attainable which could be hazardous on single exposure. May cause respiratory irritation and central nervous system depression.

The LC50 has not been determined.

For similar material(s): LC50, Rat, male and female, 4 Hour, vapour, > 10.2 mg/l No deaths occurred at this concentration.

**Ethyltoluene**

Prolonged excessive exposure may cause serious adverse effects, even death. May cause respiratory irritation and central nervous system depression. Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconsciousness.

The LC50 has not been determined.

**Methanol**

Easily attainable vapor concentrations may cause serious adverse effects, even death. At lower concentrations: May cause respiratory irritation and central nervous system depression. Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconsciousness. Inhalation of methanol may cause effects ranging from headache, narcosis and visual impairment to metabolic acidosis, blindness, and even death. Effects may be delayed.

LC50, Rat, 4 Hour, vapour, 3 mg/l

**Nonane**

LC50, Rat, male, 4 Hour, vapour, 17 mg/l

**Octamethyl Cyclotetrasiloxane**

LC50, Rat, male and female, 4 Hour, dust/mist, 36 mg/l OECD Test Guideline 403

**Skin corrosion/irritation**

Causes skin irritation.

**Information for the Product:**

Based on information for component(s):

Brief contact may cause moderate skin irritation with local redness.

May cause drying and flaking of the skin.

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

For similar material(s):

Brief contact may cause skin irritation with local redness.

**Mineral Spirits**

Brief contact may cause moderate skin irritation with local redness.

May cause drying and flaking of the skin.

**Isopropanol**

Prolonged exposure not likely to cause significant skin irritation.

May cause drying and flaking of the skin.

**Trimethylbenzene (mixed isomers)**

Prolonged contact may cause moderate skin irritation with local redness.

May cause drying and flaking of the skin.

**Ethyltoluene**

Prolonged contact may cause skin irritation with local redness.

Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.  
May cause drying and flaking of the skin.

**Methanol**

Prolonged contact may cause slight skin irritation with local redness.

**Nonane**

Brief contact may cause moderate skin irritation with local redness.

**Octamethyl Cyclotetrasiloxane**

Brief contact is essentially nonirritating to skin.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Information for the Product:**

Based on information for component(s):

May cause eye irritation.

May cause corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Vapor may cause lacrimation (tears).

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyl dimethoxysiloxy-terminated**

For similar material(s):

May cause eye irritation.

**Mineral Spirits**

Essentially nonirritating to eyes.

**Isopropanol**

May cause pain disproportionate to the level of irritation to eye tissues.

May cause moderate eye irritation.

May cause moderate corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

Vapor may cause lacrimation (tears).

**Trimethylbenzene (mixed isomers)**

May cause slight eye irritation.

**Ethyltoluene**

May cause slight eye irritation.

May cause slight temporary corneal injury.

Vapor may cause eye irritation experienced as mild discomfort and redness.

**Methanol**

May cause eye irritation.

**Nonane**

May cause slight temporary eye irritation.

Corneal injury is unlikely.

**Octamethyl Cyclotetrasiloxane**

Essentially nonirritating to eyes.

**Sensitization**

**For skin sensitization:**

Not classified based on available information.

**For respiratory sensitization:**

Not classified based on available information.

**Information for the Product:**

For skin sensitization:

Contains component(s) which did not cause allergic skin sensitization in guinea pigs.

For respiratory sensitization:

No specific, relevant data available for assessment.

**Information for components:**

**Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

**Mineral Spirits**

For skin sensitization:

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Isopropanol**

For skin sensitization:

Did not cause allergic skin reactions when tested in guinea pigs.

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

**Trimethylbenzene (mixed isomers)**

For skin sensitization:

For similar material(s):

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Ethyltoluene**

For skin sensitization:  
No relevant data found.

For respiratory sensitization:  
No relevant data found.

**Methanol**

For skin sensitization:  
No relevant data found.

For respiratory sensitization:  
No relevant data found.

**Nonane**

For skin sensitization:  
For similar material(s):  
Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:  
No relevant data found.

**Octamethyl Cyclotetrasiloxane**

For skin sensitization:  
Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:  
No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

Available data are inadequate to determine single exposure specific target organ toxicity.

**Mineral Spirits**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Isopropanol**

May cause drowsiness or dizziness.  
Route of Exposure: Ingestion  
Target Organs: Central nervous system

**Trimethylbenzene (mixed isomers)**

Available data are inadequate to determine single exposure specific target organ toxicity.

**Ethyltoluene**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Methanol**

Causes damage to organs.

Target Organs: Eyes, Central nervous system

**Nonane**

May cause drowsiness or dizziness.

Route of Exposure: Inhalation

Target Organs: Central nervous system

**Octamethyl Cyclotetrasiloxane**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Aspiration Hazard**

Not classified based on available information.

**Information for the Product:**

Based on physical properties, not likely to be an aspiration hazard.

**Information for components:**

**Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

Based on available information, aspiration hazard could not be determined.

**Mineral Spirits**

May be fatal if swallowed and enters airways.

**Isopropanol**

Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

**Trimethylbenzene (mixed isomers)**

May be fatal if swallowed and enters airways.

**Ethyltoluene**

May be harmful if swallowed and enters airways.

**Methanol**

May be harmful if swallowed and enters airways.

**Nonane**

Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

**Octamethyl Cyclotetrasiloxane**

Material is not classified as an aspiration hazard based on insufficient data, however materials with low viscosity may be aspirated into the lungs during ingestion or vomiting.

**Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)**

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

**Information for the Product:**

Product test data not available.

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

No relevant data found.

**Mineral Spirits**

In humans, effects have been reported on the following organs:

Bone Marrow

Liver

In animals, effects have been reported on the following organs:

central nervous system damage

Kidney.

Kidney effects and/or tumors have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.

**Isopropanol**

In animals, effects have been reported on the following organs:

Kidney.

Liver.

Kidney effects have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.

Observations in animals include:

Lethargy.

**Trimethylbenzene (mixed isomers)**

May cause respiratory irritation and central nervous system depression.

Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

**Ethyltoluene**

No relevant data found.

**Methanol**

Methanol is highly toxic to humans and may cause central nervous system effects, visual disturbances up to blindness, metabolic acidosis, and degenerative damage to other organs including liver, kidney, and heart.

**Nonane**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Octamethyl Cyclotetrasiloxane**

In animals, effects have been reported on the following organs:

Kidney.

Liver.

Respiratory tract.  
Female reproductive organs.

### **Carcinogenicity**

Not classified based on available information.

#### **Information for the Product:**

Product test data not available.

#### **Information for components:**

##### **Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

No relevant data found.

##### **Mineral Spirits**

No relevant data found.

##### **Isopropanol**

Did not cause cancer in laboratory animals.

##### **Trimethylbenzene (mixed isomers)**

No relevant data found.

##### **Ethyltoluene**

No relevant data found.

##### **Methanol**

Did not cause cancer in laboratory animals.

##### **Nonane**

No relevant data found.

##### **Octamethyl Cyclotetrasiloxane**

Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

### **Teratogenicity**

Not classified based on available information.

#### **Information for the Product:**

Product test data not available.

#### **Information for components:**

**Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

No relevant data found.

**Mineral Spirits**

Did not cause birth defects or any other fetal effects in laboratory animals.

**Isopropanol**

Isopropanol has been toxic to the fetus in laboratory animals at doses toxic to the mother.

**Trimethylbenzene (mixed isomers)**

Has been toxic to the fetus in lab animals at doses nontoxic to the mother.

**Ethyltoluene**

No relevant data found.

**Methanol**

Methanol has caused birth defects in mice at doses nontoxic to the mother as well as slight behavioral effects in offspring of rats.

**Nonane**

For similar material(s): Did not cause birth defects or any other fetal effects in laboratory animals.

**Octamethyl Cyclotetrasiloxane**

Did not cause birth defects or any other fetal effects in laboratory animals.

**Reproductive toxicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

No relevant data found.

**Mineral Spirits**

In animal studies, did not interfere with reproduction.

**Isopropanol**

In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

**Trimethylbenzene (mixed isomers)**

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. In animal studies, did not interfere with fertility.

**Ethyltoluene**

No relevant data found.

**Methanol**

In animal studies, did not interfere with reproduction.

**Nonane**

For similar material(s): In animal studies, did not interfere with reproduction.

**Octamethyl Cyclotetrasiloxane**

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. In animal studies, has been shown to interfere with fertility.

**Mutagenicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

No relevant data found.

**Mineral Spirits**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Isopropanol**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Trimethylbenzene (mixed isomers)**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Ethyltoluene**

Based on information for a similar material: In vitro genetic toxicity studies were negative.

**Methanol**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative in some cases and positive in other cases.

**Nonane**

In vitro genetic toxicity studies were negative.

**Octamethyl Cyclotetrasiloxane**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

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**12. ECOLOGICAL INFORMATION**

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*Ecotoxicological information appears in this section when such data are available.*

**Toxicity**

**Information for the Product:**

Product test data not available.

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated****Acute toxicity to fish**

No relevant data found.

**Mineral Spirits****Acute toxicity to fish**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

For similar material(s):

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 2.5 mg/l

**Acute toxicity to aquatic invertebrates**

LC50, crustacean Chaetogammarus marinus, 96 Hour, 3.5 mg/l

**Acute toxicity to algae/aquatic plants**

ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, 1.2 mg/l, OECD Test Guideline 201

NOEC, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, 0.16 mg/l, OECD Test Guideline 201

**Chronic toxicity to fish**

For similar material(s):

NOEC, Oncorhynchus mykiss (rainbow trout), 112 d, <1.4 mg/l

**Chronic toxicity to aquatic invertebrates**

NOEC, Daphnia magna (Water flea), 21 d, number of offspring, 0.28 mg/l

**Isopropanol****Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50, Pimephales promelas (fathead minnow), flow-through test, 96 Hour, 9,640 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

LC50, Daphnia magna (Water flea), static test, 24 Hour, > 10,000 mg/l, OECD Test Guideline 202 or Equivalent

**Acute toxicity to algae/aquatic plants**

NOEC, alga Scenedesmus sp., static test, 7 d, Growth inhibition (cell density reduction), 1,800 mg/l

ErC50, alga Scenedesmus sp., static test, 72 Hour, Growth rate inhibition, > 1,000 mg/l

**Toxicity to bacteria**

EC50, activated sludge, Static, 16 hrs, Respiration rates., > 1,000 mg/l, DIN 38 412 Part 8

**Chronic toxicity to aquatic invertebrates**

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, 30 mg/l

**Trimethylbenzene (mixed isomers)****Acute toxicity to fish**

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

**Acute toxicity to aquatic invertebrates**

LC50, grass shrimp (Palaemonetes pugio), static test, 24 Hour, 7 mg/l

LC50, grass shrimp (Palaemonetes pugio), static test, 96 Hour, 5.4 mg/l

**Ethyltoluene****Acute toxicity to fish**

Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50, emerald shiner (Notropis atherinoides), 72 Hour, 21.3 mg/l

**Methanol****Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

LC50, Bluegill sunfish (Lepomis macrochirus), flow-through test, 96 Hour, 15,400 mg/l

**Acute toxicity to aquatic invertebrates**

LC50, Daphnia magna (Water flea), 48 Hour, > 10,000 mg/l

**Acute toxicity to algae/aquatic plants**

ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, 22,000 mg/l, OECD Test Guideline 201 or Equivalent

**Toxicity to bacteria**

IC50, activated sludge, 3 Hour, Respiration rates., > 1,000 mg/l, OECD Test Guideline 209

**Chronic toxicity to fish**

NOEC, Oryzias latipes (Orange-red killifish), 200 Hour, 15,800 mg/l

**Nonane****Acute toxicity to fish**

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

**Octamethyl Cyclotetrasiloxane****Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility

LC50, Oncorhynchus mykiss (rainbow trout), flow-through, 96 Hour, > 0.022 mg/l

No toxicity at the limit of solubility

LC50, Cyprinodon variegatus (sheepshead minnow), flow-through, 14 d, > 0.0063 mg/l

**Acute toxicity to aquatic invertebrates**

No toxicity at the limit of solubility

EC50, Mysidopsis bahia (opossum shrimp), flow-through test, 96 Hour, > 0.0091 mg/l  
No toxicity at the limit of solubility  
EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, > 0.015 mg/l

**Acute toxicity to algae/aquatic plants**

No toxicity at the limit of solubility  
ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, > 0.022 mg/l  
No toxicity at the limit of solubility  
EC10, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, >= 0.022 mg/l

**Chronic toxicity to fish**

No toxicity at the limit of solubility  
NOEC, Oncorhynchus mykiss (rainbow trout), 93 d, growth, >= 0.0044 mg/l

**Chronic toxicity to aquatic invertebrates**

NOEC, Daphnia magna (Water flea), 21 d, survival, >= 0.0079 mg/l

**Persistence and degradability****Information for the Product:**

Product test data not available.

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

**Biodegradability:** No relevant data found.

**Mineral Spirits**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Pass

**Biodegradation:** > 63 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301B

**Theoretical Oxygen Demand:** 3.49 mg/mg

**Isopropanol**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Pass

**Biodegradation:** 95 %

**Exposure time:** 21 d

**Method:** OECD Test Guideline 301E or Equivalent

10-day Window: Not applicable

**Biodegradation:** 53 %

**Exposure time:** 5 d

**Method:** Regulation (EC) No. 440/2008, Annex, C.6 (COD)

**Theoretical Oxygen Demand:** 2.40 mg/mg Estimated.

**Chemical Oxygen Demand:** 2.09 mg/mg Estimated.

**Biological oxygen demand (BOD)**

| Incubation Time | BOD       |
|-----------------|-----------|
| 5 d             | 20 - 72 % |
| 20 d            | 78 - 86 % |

**Photodegradation**

**Test Type:** Half-life (indirect photolysis)

**Sensitization:** OH radicals

**Atmospheric half-life:** 1.472 d

**Method:** Estimated.

**Trimethylbenzene (mixed isomers)**

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

For similar material(s): 10-day Window: Not applicable

**Biodegradation:** 50 %

**Exposure time:** 4.4 d

**Method:** Calculated.

**Ethyltoluene**

**Biodegradability:** Biodegradation under aerobic static laboratory conditions is high (BOD<sub>20</sub> or BOD<sub>28</sub>/ThOD > 40%).

**Theoretical Oxygen Demand:** 3.20 mg/mg

**Photodegradation**

**Atmospheric half-life:** 17 Hour

**Method:** Estimated.

**Methanol**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

**Theoretical Oxygen Demand:** 1.50 mg/mg

**Chemical Oxygen Demand:** 1.49 mg/mg Dichromates

**Biological oxygen demand (BOD)**

| Incubation Time | BOD  |
|-----------------|------|
| 5 d             | 72 % |
| 20 d            | 79 % |

**Photodegradation**

**Test Type:** Half-life (indirect photolysis)

**Sensitization:** OH radicals

**Atmospheric half-life:** 8 - 18 d

**Method:** Estimated.

**Nonane**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 100 %

**Exposure time:** 25 d

**Method:** Other guidelines

**Octamethyl Cyclotetrasiloxane**

**Biodegradability:** Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 3.7 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 310

**Stability in Water (1/2-life)**

Hydrolysis, DT50, 3.9 d, pH 7, Half-life Temperature 25 °C, OECD Test Guideline 111

Hydrolysis, DT50, 16.7 d, pH 7, Half-life Temperature 12 °C, OECD Test Guideline 111

Hydrolysis, DT50, 0.075 d, pH 4, Half-life Temperature 25 °C, OECD Test Guideline 111

**Photodegradation**

**Atmospheric half-life:** 16 d

**Method:** Estimated.

**Bioaccumulative potential**

**Information for the Product:**

Product test data not available.

**Information for components:**

**Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

**Bioaccumulation:** No relevant data found.

**Mineral Spirits**

**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Partition coefficient: n-octanol/water(log Pow):** 5.25 Measured

**Bioconcentration factor (BCF):** 140 Fish Estimated.

**Isopropanol**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** 0.05 Measured

**Trimethylbenzene (mixed isomers)**

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Ethyltoluene**

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Partition coefficient: n-octanol/water(log Pow):** 3.63 Measured

**Methanol**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** -0.77 Measured

**Bioconcentration factor (BCF):** < 10 *Leuciscus idus* (Golden orfe) Measured

**Nonane**

**Bioaccumulation:** For similar material(s): Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Partition coefficient: n-octanol/water(log Pow):** 5.65 Estimated.

**Bioconcentration factor (BCF):** 198.7 *Fish* 105 min Estimated.

**Octamethyl Cyclotetrasiloxane**

**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Partition coefficient: n-octanol/water(log Pow):** 6.49 Measured

**Bioconcentration factor (BCF):** 12,400 *Pimephales promelas* (fathead minnow) Measured

**Mobility in soil****Information for the Product:**

Product test data not available.

**Information for components:****Dimethyl siloxane, 3-(2-aminoethyl)aminopropyldimethoxysiloxy-terminated**

No relevant data found.

**Mineral Spirits**

**Partition coefficient (Koc):** 1451 Estimated.

**Isopropanol**

**Partition coefficient (Koc):** 1.1 Estimated.

**Trimethylbenzene (mixed isomers)**

Potential for mobility in soil is low (Koc between 500 and 2000).

**Ethyltoluene**

**Partition coefficient (Koc):** 840 Estimated.

**Methanol**

**Partition coefficient (Koc):** 0.44 Estimated.

**Nonane**

**Partition coefficient (Koc):** 796 Estimated.

**Octamethyl Cyclotetrasiloxane**

Partition coefficient (Koc): 16596 OECD Test Guideline 106

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### 13. DISPOSAL CONSIDERATIONS

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**Disposal methods:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 1: Identified Uses. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. For additional information, refer to: Handling & Storage Information, MSDS Section 7 Stability & Reactivity Information, MSDS Section 10 Regulatory Information, MSDS Section 15

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. Do not re-use containers for any purpose.

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### 14. TRANSPORT INFORMATION

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#### TDG

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Proper shipping name | FLAMMABLE LIQUID, N.O.S.(Propan-2-ol, Mineral spirits) |
| UN number            | UN 1993                                                |
| Class                | 3                                                      |
| Packing group        | II                                                     |

#### Classification for SEA transport (IMO-IMDG):

|                                                                                      |                                                        |
|--------------------------------------------------------------------------------------|--------------------------------------------------------|
| Proper shipping name                                                                 | FLAMMABLE LIQUID, N.O.S.(Propan-2-ol, Mineral spirits) |
| UN number                                                                            | UN 1993                                                |
| Class                                                                                | 3                                                      |
| Packing group                                                                        | II                                                     |
| Marine pollutant                                                                     | No                                                     |
| Special precautions for user                                                         | EmS: F-E, S-E                                          |
| Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code | Consult IMO regulations before transporting ocean bulk |

#### Classification for AIR transport (IATA/ICAO):

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Proper shipping name | Flammable liquid, n.o.s.(Propan-2-ol, Mineral spirits) |
| UN number            | UN 1993                                                |
| Class                | 3                                                      |
| Packing group        | II                                                     |

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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## 15. REGULATORY INFORMATION

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### Canadian Domestic Substances List (DSL) (CA. DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

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## 16. OTHER INFORMATION

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### Revision

Identification Number: 4107497 / A208 / Issue Date: 08/19/2026 / Version: 16.0

In case this version of the SDS contains significant changes from the previous version, they are listed below or noted by bold, double bars in the left-hand margin throughout this document.

Changes encompass identification, hazards, tox/eco-tox information and the addition/removal of the ingredients, and regulatory information, hazard information, uses, risk management measures and other key regulatory changes of the product. Detailed explanation of the changes can be obtained upon request.

### Legend

|           |                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| ACGIH     | USA. ACGIH Threshold Limit Values (TLV)                                                                                                 |
| ACGIH BEI | ACGIH - Biological Exposure Indices (BEI)                                                                                               |
| CA AB OEL | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)                                                                     |
| CA BC OEL | Canada. British Columbia OEL                                                                                                            |
| CA ON OEL | Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.                                        |
| CA QC OEL | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| Dow IHG   | Dow Industrial Hygiene Guideline                                                                                                        |
| STEL      | Short term exposure limit                                                                                                               |
| STEV      | Short-term exposure value                                                                                                               |
| TWA       | Time weighted average                                                                                                                   |
| TWAEV     | time-weighted average exposure value                                                                                                    |
| US WEEL   | USA. Workplace Environmental Exposure Levels (WEEL)                                                                                     |

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LSPN - List of Hazardous Notified Substances (Chile); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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