



# SAFETY DATA SHEET

THE DOW CHEMICAL COMPANY

**Product name:** DOWSIL™ 501W Additive

**Issue Date:** 09/26/2023

**Print Date:** 09/27/2023

THE DOW CHEMICAL COMPANY 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:** DOWSIL™ 501W Additive

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

**Identified uses:** Surface active agents Additives

### COMPANY IDENTIFICATION

THE DOW CHEMICAL COMPANY  
2211 H.H. DOW WAY  
MIDLAND MI 48674  
UNITED STATES

**Customer Information Number:**

800-258-2436  
SDSQuestion@dow.com

### EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** CHEMTREC +1 800-424-9300

**Local Emergency Contact:** 800-424-9300

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## 2. HAZARDS IDENTIFICATION

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### Hazard classification

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Category 4 - Inhalation

Serious eye damage - Category 1

### Label elements

#### Hazard pictograms



Signal word: **DANGER!**

**Hazards**

Causes serious eye damage.  
Harmful if inhaled.

**Precautionary statements****Prevention**

Avoid breathing mist or vapours.  
Use only outdoors or in a well-ventilated area.  
Wear eye protection/ face protection.

**Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER and/or doctor.

**Other hazards**

No data available

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**Chemical nature:** Silicone

This product is a mixture.

| Component                                                   | CASRN      | Concentration       |
|-------------------------------------------------------------|------------|---------------------|
| Heptamethyl-3-(propyl(polyethylene oxide)methyl)trisiloxane | 27306-78-1 | >= 74.0 - <= 90.0 % |
| Allyloxypolyethylene glycol methyl ether                    | 27252-80-8 | >= 14.0 - <= 20.0 % |

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**4. FIRST AID MEASURES**

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**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:** Wash off with plenty of water. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

**Notes to physician:** Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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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 chemical. Water spray.

**Unsuitable extinguishing media:** None known..

### Special hazards arising from the substance or mixture

**Hazardous combustion products:** Carbon oxides. Silicon oxides. Formaldehyde.

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health..

### 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 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:** Use personal protective equipment. 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:** Soak up with inert absorbent material. 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.

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## 7. HANDLING AND STORAGE

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**Precautions for safe handling:** Do not breathe vapours or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment. 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. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**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.

Do not store with the following product types: Strong oxidizing agents.  
Unsuitable materials for containers: None known.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Control parameters

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

### 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.

#### Skin protection

**Hand protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate

("EVAL"). Examples of acceptable glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl").  
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:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

The following should be effective types of air-purifying respirators: Organic vapor cartridge.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

|                                        |                                                             |
|----------------------------------------|-------------------------------------------------------------|
| Physical state                         | liquid                                                      |
| Color                                  | amber                                                       |
| Odor                                   | slight                                                      |
| Odor Threshold                         | No data available                                           |
| pH                                     | Not applicable, substance/mixture is non-soluble (in water) |
| Melting point/range                    | No data available                                           |
| Freezing point                         | No data available                                           |
| Boiling point (760 mmHg)               | > 65 °C ( > 149 °F)                                         |
| Flash point                            | <b>closed cup</b> >100 °C ( 212 °F)                         |
| Evaporation Rate (Butyl Acetate = 1)   | No data available                                           |
| Flammability (solid, gas)              | Not applicable                                              |
| Flammability (liquids)                 | Not applicable                                              |
| Lower explosion limit                  | No data available                                           |
| Upper explosion limit                  | No data available                                           |
| Vapor Pressure                         | No data available                                           |
| Relative Vapor Density (air = 1)       | No data available                                           |
| Relative Density (water = 1)           | 1.01                                                        |
| Water solubility                       | insoluble                                                   |
| Partition coefficient: n-octanol/water | No data available                                           |
| Auto-ignition temperature              | No data available                                           |
| Decomposition temperature              | No data available                                           |

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Kinematic Viscosity  | 20.2 mm <sup>2</sup> /s at 25 °C (77 °F)                 |
| Explosive properties | Not explosive                                            |
| Oxidizing properties | The substance or mixture is not classified as oxidizing. |
| Molecular weight     | No data available                                        |
| 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. When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapours. Safe handling conditions may be maintained by keeping vapour concentrations within the occupational exposure limit for formaldehyde.

**Conditions to avoid:** None known.

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

**Hazardous decomposition products:**

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

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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:**

Harmful if inhaled.

**Acute oral toxicity**

**Information for the Product:**

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

As product: Single dose oral LD50 has not been determined.

Based on information for component(s):  
LD50, > 2,500 mg/kg Estimated.

**Information for components:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

Single dose oral LD50 has not been determined.

For similar material(s): LD50, Rat, 3,000 mg/kg

**Allyloxypolyethylene glycol methyl ether**

Single dose oral LD50 has not been determined.

For similar material(s): LD50, Rat, 1,052 mg/kg OECD Test Guideline 401

**Acute dermal toxicity**

**Information for the Product:**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

Based on information for component(s):  
LD50, > 2,000 mg/kg Estimated.

**Information for components:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

The dermal LD50 has not been determined.

For similar material(s): LD50, Rabbit, > 2,000 mg/kg

**Allyloxypolyethylene glycol methyl ether**

The dermal LD50 has not been determined.

**Acute inhalation toxicity**

**Information for the Product:**

Prolonged excessive exposure may cause serious adverse effects, even death.

As product: The LC50 has not been determined.

**Information for components:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

The LC50 has not been determined.

For similar material(s): LC50, 4 Hour, dust/mist, 1.5 mg/l Estimated.

**Allyloxypolyethylene glycol methyl ether**

The LC50 has not been determined.

### Skin corrosion/irritation

Not classified based on available information.

#### Information for the Product:

Based on information for component(s):

Brief contact may cause slight skin irritation with local redness.

#### Information for components:

##### Heptamethyl-3-(propyl(polyethylene oxide)methyl)trisiloxane

For similar material(s):

Brief contact may cause slight skin irritation with local redness.

##### Allyloxypolyethylene glycol methyl ether

Brief contact is essentially nonirritating to skin.

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Information for the Product:

Based on information for component(s):

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

#### Information for components:

##### Heptamethyl-3-(propyl(polyethylene oxide)methyl)trisiloxane

For similar material(s):

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

##### Allyloxypolyethylene glycol methyl ether

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:

No specific, relevant data available for assessment.

For respiratory sensitization:

No specific, relevant data available for assessment.

#### Information for components:

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

For skin sensitization:  
No relevant data found.

For respiratory sensitization:  
No relevant data found.

**Allyloxypolyethylene glycol methyl ether**

For skin sensitization:  
No relevant data found.

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:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

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

**Allyloxypolyethylene glycol methyl ether**

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

**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:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

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

**Allyloxypolyethylene glycol methyl ether**

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

**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)**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

No relevant data found.

**Allyloxypolyethylene glycol methyl ether**

No relevant data found.

**Carcinogenicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

No relevant data found.

**Allyloxypolyethylene glycol methyl ether**

No relevant data found.

**Teratogenicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

No relevant data found.

**Allyloxypolyethylene glycol methyl ether**

No relevant data found.

**Reproductive toxicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

No relevant data found.

**Allyloxypolyethylene glycol methyl ether**

No relevant data found.

**Mutagenicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:****Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

For similar material(s): In vitro genetic toxicity studies were negative.

**Allyloxypolyethylene glycol methyl ether**

No relevant data found.

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**12. ECOLOGICAL INFORMATION**

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

**Toxicity****Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane****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).

Based on data from similar materials

LC50, Pimephales promelas (fathead minnow), 96 Hour, > 1.0 - 10.0 mg/l

**Allyloxypolyethylene glycol methyl ether****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, Danio rerio (zebra fish), 96 Hour, > 100 mg/l

**Persistence and degradability****Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

**Biodegradability:** Material is not readily biodegradable according to OECD/EEC guidelines.

10-day Window: Fail

**Biodegradation:** 2.5 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 301B

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

Hydrolysis, half-life, < 1 Hour, pH 4, Half-life Temperature 50 °C

Hydrolysis, half-life, < 2.2 d, pH 7, Half-life Temperature 50 °C

Hydrolysis, half-life, < 1.2 Hour, pH 9, Half-life Temperature 50 °C

Hydrolysis, half-life, 0.47 Hour, pH 4, Half-life Temperature 35 °C

Hydrolysis, half-life, 7.11 d, pH 7, Half-life Temperature 35 °C

Hydrolysis, half-life, 5.36 Hour, pH 9, Half-life Temperature 35 °C

Hydrolysis, half-life, 1.74 Hour, pH 4, Half-life Temperature 20 °C

Hydrolysis, half-life, 17.7 d, pH 7, Half-life Temperature 20 °C

Hydrolysis, half-life, 23.5 Hour, pH 9, Half-life Temperature 20 °C

#### **Allyloxypolyethylene glycol methyl ether**

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

10-day Window: Fail

**Biodegradation:** 20 %

**Exposure time:** 28 d

#### **Bioaccumulative potential**

#### **Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

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

**Partition coefficient: n-octanol/water(log Pow):** Pow: > 3.28

#### **Allyloxypolyethylene glycol methyl ether**

**Bioaccumulation:** No relevant data found.

#### **Mobility in soil**

#### **Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane**

No relevant data found.

#### **Allyloxypolyethylene glycol methyl ether**

No relevant data found.

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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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**DOT**

|                             |                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s.(Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane) |
| <b>UN number</b>            | UN 3082                                                                                                          |
| <b>Class</b>                | 9                                                                                                                |
| <b>Packing group</b>        | III                                                                                                              |
| <b>Marine pollutant</b>     | Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane                                                      |

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

|                                                                                             |                                                                                                                  |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Proper shipping name</b>                                                                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane) |
| <b>UN number</b>                                                                            | UN 3082                                                                                                          |
| <b>Class</b>                                                                                | 9                                                                                                                |
| <b>Packing group</b>                                                                        | III                                                                                                              |
| <b>Marine pollutant</b>                                                                     | Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane                                                      |
| <b>Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code</b> | Consult IMO regulations before transporting ocean bulk                                                           |

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

|                             |                                                                                                                  |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s.(Heptamethyl-3-(propyl(polyethylene oxide)methyl)Trisiloxane) |
| <b>UN number</b>            | UN 3082                                                                                                          |
| <b>Class</b>                | 9                                                                                                                |
| <b>Packing group</b>        | III                                                                                                              |

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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**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Acute toxicity (any route of exposure)

Serious eye damage or eye irritation

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Pennsylvania Right To Know**

The following chemicals are listed because of the additional requirements of Pennsylvania law:

**Components**

Heptamethyl-3-(propyl(polyethylene oxide)methyl)trisiloxane  
Allyloxypolyethylene glycol methyl ether

**CASRN**

27306-78-1  
27252-80-8

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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## 16. OTHER INFORMATION

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**Hazard Rating System**

**NFPA**

| Health | Flammability | Instability |
|--------|--------------|-------------|
| 3      | 1            | 0           |

**HMIS**

| Health | Flammability | Physical Hazard |
|--------|--------------|-----------------|
| 3/     | 1            | 0               |

**Revision**

Identification Number: 4115863 / A001 / Issue Date: 09/26/2023 / Version: 6.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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); 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 - Organization 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.

THE DOW CHEMICAL COMPANY urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

US