



# SAFETY DATA SHEET

## DOW CHEMICAL CANADA ULC

**Product name:** PuraGuard™ Propylene Glycol USP/EP

**Issue Date:** 05/26/2023

**Print Date:** 05/28/2024

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:** PuraGuard™ Propylene Glycol USP/EP

**Other means of identification:** propane-1,2-diol

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

**Identified uses:** We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative. Uses in Coatings, consumer Use in Cleaning Agents, consumer Functional Fluids, consumer Consumer use in agrochemicals. Other Consumer Uses Humectant and solvent for: Foodstuffs. Flavours. Fragrances. Cosmetics. Pharmaceuticals. Personal care applications. Manufacture of substance, industrial Distribution of substance, industrial Formulation & (re)packing of substances and mixtures, industrial Use in laboratories, industrial Use as binders and release agents, professional Not for use in cat food.

### 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 not hazardous under the criteria of the Hazardous Products Regulation (HPR) as implemented under the Workplace Hazardous Materials Information System (WHMIS 2015).

### Other hazards

No data available

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Synonyms:** propane-1,2-diol

This product is a substance.

**Substance name:** Propane-1,2-diol

**CASRN:** 57-55-6

| Chemical name    | Common name and synonym | CASRN   | Concentration (w/w)  |
|------------------|-------------------------|---------|----------------------|
| Propane-1,2-diol | propane-1,2-diol        | 57-55-6 | >= 99.8 - <= 100.0 % |

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### 4. FIRST AID MEASURES

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**Description of first aid measures**

**General advice:**

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; consult a physician.

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** Rinse mouth with water. No emergency medical treatment necessary.

**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:** 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.

**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.. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations..

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:** Wear self-contained breathing apparatus for firefighting if necessary.. Use personal protective equipment..

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## **6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures:** Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:** Discharge into the environment must be avoided. 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:** Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**Conditions for safe storage:** Keep in properly labelled containers. Store in the following material(s): Aluminum. Opaque HDPE plastic container. Stainless steel Container lined with phenolic or epoxy-phenolic coating. Store in accordance with the particular national regulations. Protect from atmospheric moisture. Store away from direct sunlight or ultraviolet light. Store in a dry place. Keep container tightly closed when not in use.

#### **Storage stability**

**Storage Period: Bulk, Drum:** 24 Month

Do not store with the following product types: Strong oxidizing agents.

Unsuitable materials for containers: Aluminium Carbon steel Copper Galvanized containers. Zinc

## 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            |
|------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|
| Propane-1,2-diol | US WEEL                                                                                                                    | TWA                     | 10 mg/m3         |
|                  | CA ON OEL                                                                                                                  | TWAEV Total             | 155 mg/m3 50 ppm |
|                  | CA ON OEL                                                                                                                  | TWAEV                   | 10 mg/m3         |
|                  | Further information: C: For assessing the visibility in a work environment where 1,2-propylene glycol aerosol is present.  |                         |                  |
|                  | CA ON OEL                                                                                                                  | TWA                     | 155 mg/m3 50 ppm |
|                  | CA ON OEL                                                                                                                  | TWA                     | 10 mg/m3         |
|                  | Further information: (c): For assessing the visibility in a work environment where 1,2-propylene glycol aerosol is present |                         |                  |
|                  | CA ON OEL                                                                                                                  | TWA Vapour and aerosols | 155 mg/m3 50 ppm |
|                  | CA ON OEL                                                                                                                  | TWA aerosol             | 10 mg/m3         |

### Exposure controls

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

### Individual protection measures

**Eye/face protection:** Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

#### Skin protection

**Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Examples of acceptable glove barrier materials include: Neoprene. 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:** Wear clean, body-covering clothing.

**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, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                                        |                                                                    |
|----------------------------------------|--------------------------------------------------------------------|
| <b>Appearance</b>                      |                                                                    |
| Physical state                         | Liquid.                                                            |
| Color                                  | Colorless                                                          |
| Odor                                   | Odorless                                                           |
| Odor Threshold                         | No test data available                                             |
| pH                                     | Not applicable                                                     |
| Melting point/range                    | < -20 °C <i>EC Method A1</i>                                       |
| Freezing point                         | < -20 °C <i>EC Method A1</i>                                       |
| Boiling point (760 mmHg)               | 184 °C at 752.46 mmHg <i>EC Method A2</i>                          |
| Flash point                            | <b>closed cup</b> 104 °C at 1,000.1 hPa <i>EC Method A9 (PMCC)</i> |
| Evaporation Rate (Butyl Acetate = 1)   | 0.01 <i>Estimated.</i>                                             |
| Flammability (solid, gas)              | Not applicable to liquids                                          |
| Flammability (liquids)                 | Not expected to be a static-accumulating flammable liquid.         |
| Lower explosion limit                  | 2.6 % vol <i>Estimated.</i>                                        |
| Upper explosion limit                  | 12.5 % vol <i>Estimated.</i>                                       |
| Vapor Pressure                         | 20 Pa at 25 °C <i>EC Method A4</i>                                 |
| Relative Vapor Density (air = 1)       | 2.62 <i>Literature</i>                                             |
| Relative Density (water = 1)           | 1.03 at 20 °C / 20 °C <i>EC Method A3</i>                          |
| Water solubility                       | 1.000 g/L at 20 °C <i>Regulation (EC) No. 440/2008, Annex, A.6</i> |
| Partition coefficient: n-octanol/water | log Pow: -1.07 <i>Measured</i>                                     |
| Auto-ignition temperature              | > 400 °C at 100.01 kPa <i>EC Method A15</i>                        |
| Decomposition temperature              | No data available                                                  |
| Dynamic Viscosity                      | 43.4 mPa.s at 25 °C <i>Literature</i>                              |
| Kinematic Viscosity                    | No test data available                                             |
| Explosive properties                   | Not explosive                                                      |
| Oxidizing properties                   | No                                                                 |
| Liquid Density                         | 1.03 g/cm <sup>3</sup> at 20 °C <i>Literature</i>                  |
| Molecular weight                       | No data available                                                  |
| Percent volatility                     | No data available                                                  |
| Pour point                             | < -57 °C <i>Literature</i>                                         |

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.

**Conditions to avoid:** Avoid direct sunlight or ultraviolet sources. Protect from moisture.

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

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials.. Decomposition products can include and are not limited to: Aldehydes.. Alcohols.. Ethers.. Organic acids..

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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. Harmful effects not anticipated from swallowing small amounts.

Based on product testing:  
LD50, Rat, > 20,000 mg/kg

##### Information for components:

##### Propane-1,2-diol

LD50, Rat, > 20,000 mg/kg

#### Acute dermal toxicity

##### Information for the Product:

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

Based on product testing:  
LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration.

**Information for components:**

**Propane-1,2-diol**

LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration.

**Acute inhalation toxicity**

**Information for the Product:**

At room temperature, exposure to vapor is minimal due to low volatility.

Based on product testing:

LC50, Rabbit, 2 Hour, dust/mist, 317.042 mg/l No deaths occurred at this concentration.

**Information for components:**

**Propane-1,2-diol**

LC50, Rabbit, 2 Hour, dust/mist, 317.042 mg/l No deaths occurred at this concentration.

**Skin corrosion/irritation**

Not classified based on available information.

**Information for the Product:**

Based on product testing:

Prolonged contact is essentially nonirritating to skin.

Repeated contact may cause flaking and softening of skin.

**Information for components:**

**Propane-1,2-diol**

Prolonged contact is essentially nonirritating to skin.

Repeated contact may cause flaking and softening of skin.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Information for the Product:**

Based on product testing:

May cause slight temporary eye irritation.

Corneal injury is unlikely.

Mist may cause eye irritation.

**Information for components:**

**Propane-1,2-diol**

May cause slight temporary eye irritation.

Corneal injury is unlikely.

Mist may cause eye irritation.

## **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:

Did not cause allergic skin reactions when tested in humans.

For respiratory sensitization:

No relevant data found.

### **Information for components:**

#### **Propane-1,2-diol**

Did not cause allergic skin reactions when tested in humans.

For respiratory sensitization:

No relevant data found.

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

Not classified based on available information.

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

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

### **Information for components:**

#### **Propane-1,2-diol**

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:**

#### **Propane-1,2-diol**

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

**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:**

Based on product testing:

In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

**Information for components:**

**Propane-1,2-diol**

In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

**Carcinogenicity**

Not classified based on available information.

**Information for the Product:**

Based on product testing: Did not cause cancer in laboratory animals.

**Information for components:**

**Propane-1,2-diol**

Did not cause cancer in laboratory animals.

**Teratogenicity**

Not classified based on available information.

**Information for the Product:**

Based on product testing: Did not cause birth defects or any other fetal effects in laboratory animals.

**Information for components:**

**Propane-1,2-diol**

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:**

Based on product testing: In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

**Information for components:**

**Propane-1,2-diol**

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

**Mutagenicity**

Not classified based on available information.

**Information for the Product:**

Based on product testing: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Information for components:****Propane-1,2-diol**

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****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, *Oncorhynchus mykiss* (rainbow trout), static test, 96 Hour, 40,613 mg/l, OECD Test Guideline 203

**Acute toxicity to aquatic invertebrates**

LC50, *Ceriodaphnia dubia* (water flea), static test, 48 Hour, 18,340 mg/l, OECD Test Guideline 202

**Acute toxicity to algae/aquatic plants**

ErC50, *Pseudokirchneriella subcapitata* (green algae), 96 Hour, Growth rate inhibition, 19,000 mg/l, OECD Test Guideline 201

**Toxicity to bacteria**

NOEC, *Pseudomonas putida*, 18 Hour, > 20,000 mg/l, Method Not Specified.

**Long-term (chronic) aquatic hazard****Chronic toxicity to aquatic invertebrates**

NOEC, *Ceriodaphnia dubia* (water flea), semi-static test, 7 d, number of offspring, 13,020 mg/l

**Persistence and degradability**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen).

10-day Window: Pass

**Biodegradation:** 81 %

**Exposure time:** 28 d

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

10-day Window: Not applicable

**Biodegradation:** 96 %

**Exposure time:** 64 d

**Method:** OECD Test Guideline 306 or Equivalent

**Theoretical Oxygen Demand:** 1.68 mg/mg

**Chemical Oxygen Demand:** 1.53 mg/mg

**Biological oxygen demand (BOD)**

| Incubation Time | BOD      |
|-----------------|----------|
| 5 d             | 69.000 % |
| 10 d            | 70.000 % |
| 20 d            | 86.000 % |

**Photodegradation**

**Atmospheric half-life:** 10 Hour

**Method:** Estimated.

**Bioaccumulative potential**

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

**Partition coefficient: n-octanol/water(log Pow):** -1.07 Measured

**Bioconcentration factor (BCF):** 0.09 Estimated.

**Mobility in soil**

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

**Partition coefficient (Koc):** < 1 Estimated.

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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. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. FOR UNUSED & UNCONTAMINATED PRODUCT, dispose the product in a permitted industrial waste facility per applicable regulations. Consult the local waste disposal expert about the appropriate waste disposal method. Mechanical and chemical recycling or energy recovery are the preferred options. If not possible, consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**Treatment and disposal methods of used packaging:** Empty containers should be recycled or otherwise disposed of by an approved waste management facility. In such case, the label should be removed or defaced in its entirety. 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

Not regulated for transport

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

Transport in bulk  
according to Annex I or II  
of MARPOL 73/78 and the  
IBC or IGC Code

Not regulated for transport  
Consult IMO regulations before transporting ocean bulk

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

Not regulated for transport

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)**

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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**Product Literature**

Additional information on this and other products may be obtained by visiting our web page.

**Hazard Rating System****NFPA**

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

**Revision**

Identification Number: 360603 / A208 / Issue Date: 05/26/2023 / Version: 10.0

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

**Legend**

|           |                                                     |
|-----------|-----------------------------------------------------|
| CA ON OEL | Canada. Ontario OELs                                |
| TWA       | 8-hr TWA                                            |
| 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 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.

DOW CHEMICAL CANADA ULC 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.

CA