



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA HCS 2024 and Canada Hazardous Products Act (HPA) and Hazardous Products  
Regulation (HPR), as amended

Issuing Date 22-Jul-2022

Revision date 13-Dec-2024

Revision Number 2

## 1. Identification

### Product identifier

Product Name RTM Golden Brown

### Other means of identification

Product Code(s) B224

Synonyms None

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

Recommended use Stains, Interior

Restrictions on use Use only for intended applications

### Details of the supplier of the safety data sheet

#### Manufacturer Address

General Finishes  
2462 Coporate Circle  
East Troy, WI 53120  
Phone 1-800-783-6050

#### Distributor

Wood Essence  
2343 1st Ave North, unit B  
Saskatoon, SK S7K 2A2  
Phone 306-955-8775

Dover Finishing Products  
180 Ave Du Voyageur  
Pointe-Claire, QC H9R6A8  
Phone 514-697-3000

Lee Valley Tools  
1090 Morrison Drive  
Ottawa, ON K2H1C2  
Phone 613-596-0350

### Emergency telephone number

Emergency telephone 24 Hour Emergency Phone Number  
Chemtrec 1-800-424-9300  
+1 703 527 3887 (CHEMTREC International)

## 2. Hazard(s) identification

### Classification of the substance or mixture

Carcinogenicity

Category 1A

### Label elements

Danger

Hazard statements

May cause cancer.



#### Precautionary Statements - Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

#### Precautionary Statements - Storage

Store locked up.

#### Precautionary Statements - Disposal

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

#### Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

#### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

| Chemical name | CAS No.    | Weight-%  | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---------------|------------|-----------|------------------------------------------------------------------------------|-------------------------------------------------------------|
| Ci 77491      | 1309-37-1  | 1 - 5     | -                                                                            | -                                                           |
| Glycerin      | 56-81-5    | 1 - 5     | -                                                                            | -                                                           |
| Raw umber     | 12713-03-0 | 1 - 5     | -                                                                            | -                                                           |
| Limestone     | 1317-65-3  | 0.5 - 1.5 | -                                                                            | -                                                           |
| Quartz        | 14808-60-7 | 0.1 - 1   | -                                                                            | -                                                           |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

##### General advice

IF exposed or concerned: Get medical advice/attention.

##### Inhalation

Remove to fresh air.

##### Eye contact

Rinse thoroughly with plenty of water, also under the eyelids.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth.

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

**Symptoms** No information available.

**Effects of Exposure** May cause cancer.

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

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical** No information available.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

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

**Personal precautions** Ensure adequate ventilation.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing.

**8. Exposure controls/personal protection****Control parameters****Exposure Limits**

| Chemical name           | ACGIH TLV                                                                                          |                                                                  | OSHA PEL                                                                                                                                                                                                         | NIOSH                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Ci 77491<br>1309-37-1   | TWA: 5 mg/m³ respirable particulate matter                                                         |                                                                  | TWA: 10 mg/m³ fume<br>TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 10 mg/m³ fume and total dust Iron oxide<br>(vacated) TWA: 5 mg/m³ respirable fraction regulated under Rouge | IDLH: 2500 mg/m³ Fe dust and fume<br>TWA: 5 mg/m³ Fe dust and fume |
| Glycerin<br>56-81-5     | -                                                                                                  |                                                                  | TWA: 15 mg/m³ mist, total particulate<br>TWA: 5 mg/m³ mist, respirable fraction<br>(vacated) TWA: 10 mg/m³ mist, total particulate<br>(vacated) TWA: 5 mg/m³ mist, respirable fraction                           | -                                                                  |
| Raw umber<br>12713-03-0 | TWA: 0.02 mg/m³ Mn respirable particulate matter<br>TWA: 0.1 mg/m³ Mn inhalable particulate matter |                                                                  | (vacated) Ceiling: 5 mg/m³<br>Ceiling: 5 mg/m³ Mn                                                                                                                                                                | IDLH: 500 mg/m³ Mn<br>TWA: 1 mg/m³ Mn<br>STEL: 3 mg/m³ Mn          |
| Limestone<br>1317-65-3  | -                                                                                                  |                                                                  | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 15 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction                                                                 | TWA: 10 mg/m³ total dust<br>TWA: 5 mg/m³ respirable dust           |
| Quartz<br>14808-60-7    | TWA: 0.025 mg/m³ respirable particulate matter                                                     |                                                                  | TWA: 50 µg/m³<br>: (250)/(%SiO2 + 5) mppcf<br>TWA respirable fraction<br>: (10)/(%SiO2 + 2) mg/m³<br>TWA respirable fraction                                                                                     | IDLH: 50 mg/m³ respirable dust<br>TWA: 0.05 mg/m³ respirable dust  |
| Chemical name           | Alberta                                                                                            | British Columbia                                                 | Ontario                                                                                                                                                                                                          | Quebec                                                             |
| Ci 77491<br>1309-37-1   | TWA: 5 mg/m³                                                                                       | TWA: 10 mg/m³<br>TWA: 3 mg/m³<br>TWA: 5 mg/m³<br>STEL: 10 mg/m³  | TWA: 5 mg/m³                                                                                                                                                                                                     | TWA: 5 mg/m³                                                       |
| Glycerin<br>56-81-5     | TWA: 10 mg/m³                                                                                      | TWA: 10 mg/m³<br>TWA: 3 mg/m³                                    | -                                                                                                                                                                                                                | TWA: 10 mg/m³                                                      |
| Raw umber<br>12713-03-0 | TWA: 0.2 mg/m³                                                                                     | TWA: 0.02 mg/m³<br>TWA: 0.1 mg/m³<br>Adverse reproductive effect | TWA: 0.02 mg/m³<br>TWA: 0.1 mg/m³                                                                                                                                                                                | TWA: 0.2 mg/m³<br>TWA: 0.05 mg/m³                                  |
| Limestone<br>1317-65-3  | TWA: 10 mg/m³                                                                                      | TWA: 10 mg/m³<br>TWA: 3 mg/m³<br>STEL: 20 mg/m³                  | -                                                                                                                                                                                                                | TWA: 10 mg/m³                                                      |
| Quartz<br>14808-60-7    | TWA: 0.025 mg/m³                                                                                   | TWA: 0.025 mg/m³                                                 | TWA: 0.10 mg/m³                                                                                                                                                                                                  | TWA: 0.1 mg/m³                                                     |

| Chemical name | Manitoba                     | New Brunswick                | Newfoundland and Labrador    | Nova Scotia                  |
|---------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Ci 77491      | TWA: 5 mg/m <sup>3</sup>     | TWA: 5 mg/m <sup>3</sup>     | TWA: 5 mg/m <sup>3</sup>     | TWA: 5 mg/m <sup>3</sup>     |
| Quartz        | TWA: 0.025 mg/m <sup>3</sup> | TWA: 0.025 mg/m <sup>3</sup> | TWA: 0.025 mg/m <sup>3</sup> | TWA: 0.025 mg/m <sup>3</sup> |

| Chemical name | Nunavut                                                                                                           | Prince Edward Island         | Saskatchewan                                                                                                      | Yukon                                                                                                                              |
|---------------|-------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Ci 77491      | TWA: 5 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup>     | TWA: 5 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup><br>TWA: 30 mppcf<br>TWA: 10 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup> |
| Glycerin      | TWA: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup>                                                           | -                            | TWA: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup>                                                           | TWA: 30 mppcf<br>TWA: 10 mg/m <sup>3</sup>                                                                                         |
| Limestone     | TWA: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup>                                                           |                              | TWA: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup>                                                           | TWA: 30 mppcf<br>TWA: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup>                                                           |
| Quartz        | TWA: 0.05 mg/m <sup>3</sup>                                                                                       | TWA: 0.025 mg/m <sup>3</sup> | TWA: 0.05 mg/m <sup>3</sup>                                                                                       | TWA: 300 particle/mL                                                                                                               |

### Appropriate engineering controls

**Engineering controls**                      Showers  
                                                          Eyewash stations  
                                                          Ventilation systems.

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

**Eyeface protection**                      If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection**                          Wear suitable gloves.

**Skin and body protection**                Wear suitable protective clothing.

**Respiratory protection**                    No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

## **9. Physical and chemical properties**

### Information on basic physical and chemical properties

**Appearance**

**Physical state**                              Liquid

**Color**                                          Yellow

**Odor (includes odor threshold)**        Slight

| <u>Property</u>                                           | <u>Values</u> | <u>Remarks • Method</u> |
|-----------------------------------------------------------|---------------|-------------------------|
| Melting point / freezing point                            |               | No data available       |
| Boiling point (or initial boiling point or boiling range) |               | No data available       |
| Flammability                                              |               | No data available       |
| Flammability Limit in Air                                 |               | No data available       |
| Upper flammability or explosive limits                    |               | No data available       |
| Lower flammability or explosive limits                    |               | No data available       |
| Flash point                                               |               | No data available       |
| Autoignition temperature                                  |               | No data available       |
| Decomposition temperature                                 |               | No data available       |
| SADT (°C)                                                 |               | No data available       |

|                                                   |                          |                   |
|---------------------------------------------------|--------------------------|-------------------|
| pH                                                | 7.8 - 8.8                |                   |
| pH (as aqueous solution)                          |                          | No data available |
| Kinematic viscosity                               |                          | No data available |
| Dynamic viscosity                                 | 100 - 200 cP             |                   |
| Solubility                                        |                          | No data available |
| Water solubility                                  | Soluble in water         |                   |
| Partition coefficient n-octanol/water (log value) |                          | No data available |
| Vapor pressure (includes evaporation rate)        |                          | No data available |
| Evaporation rate                                  |                          | No data available |
| Density and/or relative density                   | 8.7                      |                   |
| Bulk density                                      |                          | No data available |
| Liquid Density                                    |                          | No data available |
| Relative vapor density                            |                          | No data available |
| Particle characteristics                          |                          |                   |
| Particle Size                                     |                          | No data available |
| Particle Size Distribution                        |                          | No data available |
| <b>Other information</b>                          |                          |                   |
| Molecular weight                                  | No information available |                   |
| VOC content                                       | < 250 g/L                |                   |
| Softening point                                   | No information available |                   |

#### **Information with regard to physical hazard classes**

##### **Explosives**

Explosive properties No information available

Oxidizing properties No information available

## **10. Stability and reactivity**

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Reactivity                         | None under normal use conditions.         |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | Do not freeze.                            |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

## **11. Toxicological information**

#### **Information on likely routes of exposure**

##### **Product Information**

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. |
| Eye contact  | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion    | Specific test data for the substance or mixture is not available. |

#### **Symptoms related to the physical, chemical and toxicological characteristics**

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

**Acute toxicity** No information available.

**Numerical measures of toxicity**

#### Component Information

| Chemical name | Oral LD50             | Dermal LD50          | Inhalation LC50         |
|---------------|-----------------------|----------------------|-------------------------|
| Ci 77491      | > 10000 mg/kg ( Rat ) | -                    | -                       |
| Glycerin      | = 27200 mg/kg ( Rat ) | > 10 g/kg ( Rabbit ) | > 5.85 mg/L ( Rat ) 4 h |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** May cause cancer. Contains a known or suspected carcinogen. Classification based on data available for ingredients.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name         | ACGIH | IARC    | NTP   | OSHA |
|-----------------------|-------|---------|-------|------|
| Ci 77491<br>1309-37-1 | -     | Group 3 | -     | -    |
| Quartz<br>14808-60-7  | A2    | Group 1 | Known | X    |

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**Occupational Safety and Health Administration of the US Department of Labor**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to | Crustacea |
|---------------|----------------------|------|-------------|-----------|
|---------------|----------------------|------|-------------|-----------|

|                       |   |                                                 | microorganisms |   |
|-----------------------|---|-------------------------------------------------|----------------|---|
| Ci 77491<br>1309-37-1 | - | LC50: =100000mg/L<br>(96h, Danio rerio)         | -              | - |
| Glycerin<br>56-81-5   | - | LC50: 51 - 57mL/L (96h,<br>Oncorhynchus mykiss) | -              | - |

**Persistence and degradability** No information available.

#### Bioaccumulation

#### Component Information

| Chemical name       | Partition coefficient |
|---------------------|-----------------------|
| Glycerin<br>56-81-5 | -1.75                 |

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. Transport information

**DOT** Not regulated

**TDG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

### 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### International Inventories

Contact supplier for inventory compliance status

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name          | SARA 313 - Threshold Values % |
|------------------------|-------------------------------|
| Raw umber - 12713-03-0 | 1.0                           |

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CAA (Clean Air Act)**

This product contains the following substances which are regulated pollutants to the Clean Air Act (CAA).

| Chemical name           | Hazardous air pollutants (HAPs) | Ozone-depleting substances (ODS) |
|-------------------------|---------------------------------|----------------------------------|
| Raw umber<br>12713-03-0 | Present                         | -                                |

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:.

| Chemical name              | California Proposition 65 |
|----------------------------|---------------------------|
| Quartz - 14808-60-7        | Carcinogen                |
| Carbon black - 1333-86-4   | Carcinogen                |
| Ethylene glycol - 107-21-1 | Developmental             |
| Diethanolamine - 111-42-2  | Carcinogen                |

**U.S. State Right-to-Know Regulations**

| Chemical name                                         | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------------------------------|------------|---------------|--------------|
| Ci 77491<br>1309-37-1                                 | X          | X             | X            |
| Glycerin<br>56-81-5                                   | X          | X             | X            |
| Raw umber<br>12713-03-0                               | X          | -             | X            |
| Limestone<br>1317-65-3                                | X          | X             | X            |
| Quartz<br>14808-60-7                                  | X          | X             | X            |
| Propylene glycol<br>57-55-6                           | X          | -             | X            |
| Tripropylene glycol monomethyl<br>ether<br>25498-49-1 | X          | -             | X            |

|                             |   |   |   |
|-----------------------------|---|---|---|
| Carbon black<br>1333-86-4   | X | X | X |
| Ethylene glycol<br>107-21-1 | X | X | X |
| Diethanolamine<br>111-42-2  | X | X | X |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other information**

**NFPA** Health hazards 0 Flammability 0 Instability 0 Special hazards -  
**HMIS** Health hazards \* Flammability 0 Physical hazards 0 Personal protection X  
 Chronic Hazard Star Legend \* = Chronic Health Hazard

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

|         |                                                                                                     |
|---------|-----------------------------------------------------------------------------------------------------|
| ACGIH   | American Conference of Governmental Industrial Hygienists                                           |
| ADN     | Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)     |
| ADR     | Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)                 |
| AIIC    | Australian Inventory of Industrial Chemicals                                                        |
| ATE     | Acute Toxicity Estimate                                                                             |
| ASTM    | American Society for the Testing of Materials                                                       |
| bar     | Biological Reference Values for Chemical Compounds in the Work Area                                 |
| BAT     | Biological tolerance values for occupational exposure                                               |
| BEL     | Biological exposure limits                                                                          |
| bw      | Body weight                                                                                         |
| Ceiling | Maximum limit value                                                                                 |
| CMR     | Carcinogen, Mutagen or Reproductive Toxicant                                                        |
| DOT     | Department of Transportation (United States)                                                        |
| DSL     | Domestic Substances List (Canada)                                                                   |
| EmS     | Emergency Schedule                                                                                  |
| ENCS    | Existing and New Chemical Substances (Japan)                                                        |
| EPA     | Environmental Protection Agency                                                                     |
| GHS     | Globally Harmonized System                                                                          |
| 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 |
| ICAO    | International Civil Aviation Organization                                                           |
| IECSC   | Inventory of Existing Chemical Substances in China                                                  |
| IMDG    | International Maritime Dangerous Goods                                                              |
| IMO     | International Maritime Organization                                                                 |
| ISO     | International Organization for Standardization                                                      |
| KECI    | Korean 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                                 |
| NFPA    | National Fire Protection Association                                                                |
| NIOSH   | National Institute for Occupational Safety and Health                                               |
| n.o.s.  | Not Otherwise Specified                                                                             |
| NOAEC   | No Observed Adverse Effect Concentration                                                            |

|         |                                                                                     |
|---------|-------------------------------------------------------------------------------------|
| NOAEL   | No Observed Adverse Effect Level                                                    |
| NOELR   | No Observable Effect Loading Rate                                                   |
| NTP     | National Toxicology Program (United States)                                         |
| NZIoC   | New Zealand Inventory of Chemicals                                                  |
| OECD    | Organization for Economic Cooperation and Development                               |
| OEL     | Occupational exposure limits                                                        |
| OSHA    | Occupational Safety and Health Administration of the US Department of Labor         |
| PBT     | Persistent, Bioaccumulative and Toxic substance                                     |
| PICCS   | Philippines Inventory of Chemicals and Chemical Substances                          |
| PMT     | Persistent, Mobile and Toxic                                                        |
| PPE     | Personal protective equipment                                                       |
| QSAR    | Quantitative Structure Activity Relationship                                        |
| RID     | Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe) |
| SADT    | Self-Accelerating Decomposition Temperature                                         |
| SAR     | Structure-activity relationship                                                     |
| SARA    | Superfund Amendments and Reauthorization Act                                        |
| SDS     | Safety Data Sheet                                                                   |
| SL      | Surface Limit                                                                       |
| STEL    | Short Term Exposure Limit                                                           |
| STOT RE | Specific target organ toxicity - Repeated exposure                                  |
| STOT SE | Specific target organ toxicity - Single exposure                                    |
| TCSI    | Taiwan Chemical Substance Inventory                                                 |
| TDG     | Transport of Dangerous Goods (Canada)                                               |
| TSCA    | Toxic Substances Control Act (United States)                                        |
| TWA     | Time-Weighted Average                                                               |
| UN      | United Nations                                                                      |
| VOC     | Volatile organic compounds                                                          |
| vPvB    | Very Persistent and Very Bioaccumulative                                            |
| vPvM    | Very Persistent and Very Mobile                                                     |
| Sen+    | Sensitizer                                                                          |
| Sk*     | Skin designation                                                                    |
| **      | Hazard Designation                                                                  |

#### Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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**Revision Note**

Updated format; SDS sections updated: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 15, 16.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**