



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
HPR, Schedule 1

Revision date 14-Oct-2025

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Penconazole D7 (propyl D7)

### Other means of identification

**Product Code(s)** DRE-C15910100

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

**Recommended use** Laboratory use

**Restrictions on use** No information available

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

#### Initial supplier identifier

Toronto Research Chemicals  
101 Milani Blvd.,  
Vaughan, Ontario  
L4H 4M4

Emergency number: +1(416) 665-9696 between 0800-1700 (GMT-5)

Fax: +14166654439

Web: [www.lgcstandards.com](http://www.lgcstandards.com)

**E-mail** [sds-request@lgcgroup.com](mailto:sds-request@lgcgroup.com)

### Emergency telephone number

#### **Emergency Telephone**

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300

Rest of the world +1 703-741-3877

## 2. Hazard identification

### Classification of the substance or mixture

Classification according to WHMIS.

|   |            |
|---|------------|
| Acute toxicity - Oral                     | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Reproductive toxicity                     | Category 2 |



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|   |            |
|---|------------|
| Hazardous to the Aquatic Environment - Acute Hazard   | Category 1 |
| Hazardous to the Aquatic Environment - Chronic Hazard | Category 1 |

## Label elements

### Warning



Environmental hazards



### Hazard statements

Classification according to WHMIS.

Harmful if swallowed.

Harmful if inhaled.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life with long lasting effects.

### 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.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing dust, fume, gas, mist, vapors and spray.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

Rinse mouth.

#### Spill

Collect spillage.

### Precautionary Statements - Storage



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Store locked up.

## Precautionary Statements - Disposal

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

## Other information

No information available.

## 3. Composition/information on ingredients

### Substance

#### Formula

C13 D7 H8 Cl2 N3

| Chemical name  | CAS No.      | Weight-%  | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|----------------|--------------|-----------|--|---|
| Penconazole-d7 | 1628110-84-8 | 90 - 100% | -  |   |

### Additional information

This product contains a stable isotope

## 4. First-aid measures

### Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

#### Inhalation

If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. If symptoms persist, call a doctor.

#### Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.

#### Skin contact

Wash skin with soap and water.

#### Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.

#### Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. See section 8 for more information.

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

#### Symptoms

Coughing and/ or wheezing. Difficulty in breathing.



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**Effects of Exposure** May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

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

**Note to doctors** Treat symptomatically.

## 5. Fire-fighting measures

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

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**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. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required.

**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 labelled containers.

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



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## 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. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid generation of dust. Ensure adequate ventilation.

#### **General hygiene considerations**

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Avoid breathing dust/fume/gas/mist/vapours/spray.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

## 8. Exposure controls/personal protection

### Control parameters

### Control parameters

#### **Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

#### **Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

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

#### **Eye/face protection**

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

#### **Hand protection**

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves.

#### **Gloves**

Duration of contact

Glove thickness

Break through time

PPE - Glove material  
Wear protective butyl rubber gloves



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|  |  |             |                                       |
|--|--|-------------|---------------------------------------|
|  | 0.11 mm  | 480 minutes | Wear protective nitrile rubber gloves |
| <b>Skin and body protection</b>        | Wear suitable protective clothing.   |             |                                       |
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.   |             |                                       |
| <b>Environmental exposure controls</b> | Do not allow into any sewer, on the ground or into any body of water.  |             |                                       |
| <b>General hygiene considerations</b>  | Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Avoid breathing dust/fume/gas/mist/vapours/spray. |             |                                       |

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                        |                          |
|------------------------|--------------------------|
| <b>Appearance</b>      | Solid                    |
| <b>Physical state</b>  | Solid                    |
| <b>Colour</b>          | white, to, off-white     |
| <b>Odour</b>           | No information available |
| <b>Odour threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>                        | <u>Remarks • Method</u> |
|--|--------------------------------------|-------------------------|
| <b>Melting point / freezing point</b>          | 61 - 63 °C                           | None known              |
| <b>Initial boiling point and boiling range</b> | No data available                    | None known              |
| <b>Flammability</b>                            |                                      | None known              |
| <b>Flammability Limit in Air</b>               |                                      | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available                    |                         |
| <b>Lower flammability or explosive limits</b>  | No data available                    |                         |
| <b>Flash point</b>                             | No data available                    | None known              |
| <b>Autoignition temperature</b>                | No data available                    | None known              |
| <b>Decomposition temperature</b>               | No data available                    | None known              |
| <b>SADT (°C)</b>                               | No data available                    | None known              |
| <b>pH</b>                                      | No data available                    | None known              |
| <b>pH (as aqueous solution)</b>                | No data available                    | None known              |
| <b>Kinematic viscosity</b>                     | No data available                    | None known              |
| <b>Dynamic viscosity</b>                       | No data available                    | None known              |
| <b>Water solubility</b>                        | No data available                    | None known              |
| <b>Solubility(ies)</b>                         | Chloroform Methanol slightly soluble |                         |
| <b>Partition Coefficient (n-octanol/water)</b> | No data available                    | None known              |
| <b>Vapour pressure</b>                         | No data available                    | None known              |
| <b>Relative density</b>                        | No data available                    | None known              |
| <b>Bulk density</b>                            | No data available                    |                         |
| <b>Liquid Density</b>                          | No data available                    |                         |



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|                            |                   |            |
|----------------------------|-------------------|------------|
| Relative vapour density    | No data available | None known |
| Particle characteristics   |                   | None known |
| Particle Size              | No data available |            |
| Particle Size Distribution | No data available |            |

## Other information

|                   |                  |
|-------------------|------------------|
| Molecular formula | C13 D7 H8 Cl2 N3 |
| Molecular weight  | 291.23           |

## Information with regards to physical hazard classes

### 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No information available.                 |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | Excessive heat.                           |
| 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. Harmful by inhalation. (based on components). |
| 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. Harmful if swallowed. (based on components).  |

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

|                                |  |
|--------------------------------|--|
| Symptoms                       | Coughing and/ or wheezing.                   |
| Acute toxicity                 | Harmful if swallowed. Harmful by inhalation. |
| Numerical measures of toxicity |  |
| No information available       |  |

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

|                           |                           |
|---------------------------|---------------------------|
| Skin corrosion/irritation | No information available. |
|---------------------------|---------------------------|



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|                                   |  |
|-----------------------------------|--|
| Serious eye damage/eye irritation | No information available.  |
| Respiratory or skin sensitisation | No information available.  |
| Germ cell mutagenicity            | No information available.  |
| Carcinogenicity                   | No information available.  |
| Reproductive toxicity             | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child. |
| STOT - single exposure            | No information available.  |
| STOT - repeated exposure          | No information available.  |
| Aspiration hazard                 | No information available.  |

## 12. Ecological information

|                               |   |
|-------------------------------|---|
| Ecotoxicity                   | Very toxic to aquatic life with long lasting effects. |
| Persistence and degradability | No information available.                             |
| Bioaccumulation               | No information available.                             |
| 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. |
|-------------------------------------|---|





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Contaminated packaging

Do not reuse empty containers.

## 14. Transport information

### TDG

|                            |  |
|----------------------------|--|
| UN number or ID number     | UN3077   |
| UN proper shipping name    | Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7)                 |
| Transport hazard class(es) | 9  |
| Packing group              | III  |
| Special Provisions         | 16, 99   |
| Marine pollutant           | Penconazole-d7.  |
| Description                | UN3077, Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7), 9, III |

### DOT

|                                 |  |
|---------------------------------|--|
| UN number or ID number          | UN3077   |
| Extended proper shipping name   | Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7)                                   |
| Transport hazard class(es)      | 9  |
| Packing group                   | III  |
| DOT Marine Pollutant            | I.   |
| Marine pollutant                | Penconazole-d7   |
| Description                     | UN3077, Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7), 9, III, Marine pollutant |
| Special Provisions              | 8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33                                   |
| Emergency Response Guide Number | 171  |

### ICAO (air)

|                            |  |
|----------------------------|--|
| UN number or ID number     | UN3077   |
| UN proper shipping name    | Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7)                 |
| Transport hazard class(es) | 9  |
| Packing group              | III  |
| Description                | UN3077, Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7), 9, III |
| Special Provisions         | A97, A158, A179, A197, A215  |

### IATA

|                            |  |
|----------------------------|--|
| UN number                  | UN3077   |
| UN proper shipping name    | Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7)                 |
| Transport hazard class(es) | 9  |
| Packing group              | III  |
| ERG Code                   | 9L   |
| Special Provisions         | A97, A158, A179, A197, A215  |
| Description                | UN3077, Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7), 9, III |

### IMDG

|                            |  |
|----------------------------|--|
| UN number                  | UN3077   |
| UN proper shipping name    | Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7) |
| Transport hazard class(es) | 9  |
| Packing group              | III  |
| EmS-No.                    | F-A, S-F   |



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**Special Provisions**  
**Marine pollutant**  
**Description**

274, 335, 966, 967, 969  
P  
UN3077, Environmentally hazardous substances, solid, n.o.s. (Penconazole-d7), 9, III,  
Marine pollutant

## 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

**TSCA** LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

| Chemical name  | CAS No.      | US TSCA Inventory listing | US TSCA inactive/active designation |
|----------------|--------------|---------------------------|-------------------------------------|
| Penconazole-d7 | 1628110-84-8 | -                         | Unknown *                           |

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

#### International Inventories

|                      |   |
|----------------------|---|
| <b>DSL/NDSL</b>      | Contact supplier for inventory compliance status. |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>          | Contact supplier for inventory compliance status. |
| <b>IECSC</b>         | Contact supplier for inventory compliance status. |
| <b>KECL</b>          | Contact supplier for inventory compliance status. |
| <b>PICCS</b>         | Contact supplier for inventory compliance status. |
| <b>AIIC</b>          | Contact supplier for inventory compliance status. |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status. |
| <b>TCSI</b>          | Contact supplier for inventory compliance status. |

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances



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**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory

## 16. Other information

|  |                           |                       |                           |                              |
|--|---------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b>  | <b>Health hazards</b> 0   | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b>  | <b>Health hazards</b> 1 * | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |
| Chronic Hazard Star Legend * = Chronic Health Hazard |                           |                       |                           |                              |

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

#### Legend

|  |   |
|--|---|
| ACGIH  | The American Conference of Governmental Industrial Hygienists (ACGIH) Documentation of Threshold Limit Values and Biological Indices (latest edition)   |
| ADN  | European Agreement on International Transport of Dangerous Goods by Road (ADR)  |
| ADR  | Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)   |
| AIIC   | Australian Inventory of Industrial Chemicals  |
| P240 - Ground and bond container and receiving equipment             | Acute Toxicity Estimate   |
| P263 - Avoid contact during pregnancy and while nursing              | ASTM (formerly known as the American Society for Testing and Materials)   |
| bar  | Biological Reference Values for Chemical Compounds in the Work Area   |
| paste  | Biological tolerance values for occupational exposure   |
| MEX  | Biological exposure limits  |
| European Export/Import Restrictions per (EC) 649/2012 - Annex Number | Body weight   |
| Ceiling  | Maximum limit value   |
| CMR Effects  | CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)   |
| DOT  | DOT (Department of Transportation)  |
| DSL  | Canadian Domestic Substances List (DSL)   |
| EmS  | Emergency Schedule  |
| ENCS   | ENCS (Existing and New Chemical Substances)   |
| EPA  | EPA (Environmental Protection Agency)   |
| GHS  | The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)   |
| HMIS   | Hazardous Materials Identification System   |
| IARC   | IARC - International Agency for Research on Cancer  |
| IATA   | (IATA) International Air Transport Association  |
| IBCs   | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk   |
| ICAO   | The transportation of primary lithium cells and batteries is regulated by the International Civil Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code and the US Department of Transportation. The batteries must meet the following criteria for shipment: 1. Air shipments must meet the requirements listed in Special Provision A45 of the International Air Transport Association Dangerous Goods Regulations. 2. Meet the requirements for the US Department of Transportation listed in 49 |



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|   |  |
|---|--|
|   | CFR 173.185. 3. The transport of primary lithium batteries is prohibited aboard passenger aircraft. Refer to the Federal Register December 15, 2004 (Hazardous Materials; Prohibited on the Transportation of Primary Lithium Batteries and Cells Aboard Passenger Aircraft; Final Rule) |
| IECSC   | China (IECSC)  |
| IMDG  | Sea transport (IMDG)   |
| Directive 84/449/EEC, Annex, C.10   | International Maritime Organization  |
| Directive 84/449/EEC, Annex, A.7  | ISO (The International Organization for Standardisation)   |
| KECL  | South Korea (KECL)   |
| LC50  | Lethal Concentration to 50% of a test population   |
| LD50  | Lethal Dose to 50% of a test population (Median Lethal Dose)   |
| Harmful Substances - names to be indicated on the label; Industrial Safety and Health Law enforcement order article 18 (related to Industrial Safety and Health Law article 57) | International Convention for the Prevention of Pollution from Ships  |
| NFPA  | National Fire Protection Association   |
| n.o.s.  | Not Otherwise Specified  |
| NOAEC   | No Observed Adverse Effect Concentration   |
| NOAEL   | NOAEL (No observed adverse effect level)   |
| Other names   | No Observable Effect Loading Rate  |
| NZIoC   | NZIoC - New Zealand Inventory of Chemicals   |
| Harmful Substances - names to be indicated on the label; Industrial Safety and Health Law enforcement order article 18 (related to Industrial Safety and Health Law article 57) | OECD (Organization for Economic Cooperation and Development)   |
| OEL   | Occupational exposure limits   |
| PBT   | Persistent, Bioaccumulative and Toxic substance  |
| PICCS   | PICCS - Philippines Inventory of Chemicals and Chemical Substances   |
| Chemically unstable gas A   | Persistent, Mobile and Toxic   |
| Terrestrial ecotoxicity   | Personal protective equipment  |
| QSAR  | Quantitative Structure Activity Relationships [QSAR]   |
| RID   | Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)  |
| SADT  | Self-Accelerating Decomposition Temperature  |
| SAR   | Structure-activity relationship  |
| SDS   | Safety Data Sheet  |
| SL  | Surface Limit  |
| STEL  | <b>STEL</b> - 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   | TDG (Transport of Dangerous Goods) Canada  |
| TSCA  | TSCA (Toxic Substances Control Act)  |
| TWA   | Time-Weighted Average  |
| UN  | United Nations   |
| VOC   | Volatile organic compounds   |
| vPvB  | Very Persistent and Very Bioaccumulative   |



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|      |                                 |
|------|---------------------------------|
| vPvM | Very Persistent and Very Mobile |
| Sen+ | Sensitiser                      |
| Sk*  | Skin designation                |
| **   | Hazard Designation              |

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

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (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)  
National Institute of Technology and Evaluation (NITE)  
Australian 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)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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Revision Note No information available.

## Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**