

## MATERIAL SAFETY DATA SHEET

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Version 1.4

## Section 1 - Product and Company Information

|                  |   |
|------------------|---|
| Product Name     | DESIPRAMINE HYDROCHLORIDE                         |
| Product Number   | D3900   |
| Brand            | SIGMA   |
| Company          | Sigma-Aldrich Canada, Ltd                         |
| Address          | 2149 Winston Park Drive<br>Oakville ON L6H 6J8 CA |
| Technical Phone: | 9058299500  |
| Fax:             | 9058299292  |
| Emergency Phone: | 800-424-9300                                      |

## Section 2 - Composition/Information on Ingredient

|                           |  |          |
|---------------------------|--|----------|
| Substance Name            | CAS #  | SARA 313 |
| DESIPRAMINE HYDROCHLORIDE | 58-28-6  | No       |
| Formula                   | C18H22N2 · HCl   |          |
| Synonyms                  | Demethylimipramine hydrochloride * Desipramine hydrochloride * Desmethylimipramine hydrochloride * 5H-Dibenz(b,f)azepine, 10,11-dihydro-5-(3-(methylamino)propyl)-, hydrochloride * 10,11-Dihydro-5-(3-(methylamino)propyl)-5H-dibenz(b,f)azepine hydrochloride * DMI hydrochloride * EX 4355 * G 35020 * GMI * Imipraminedemethyl hydrochloride * JB 8181 * N-(gamma-Methylaminopropyl)iminodibenzyl hydrochloride * Norpramin * NSC-114901 * Pertofran * Pertofrane * RMI 9,384A |          |
| RTECS Number:             | HO0525000  |          |

## Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

Harmful.

Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

Target organ(s): Central nervous system. Heart.

## HMIS RATING

HEALTH: 3\*

FLAMMABILITY: 0

REACTIVITY: 1

## NFPA RATING

HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 1

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

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## Section 4 - First Aid Measures

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### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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## Section 5 - Fire Fighting Measures

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### FLASH POINT

N/A

### AUTOIGNITION TEMP

N/A

### FLAMMABILITY

N/A

### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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## Section 6 - Accidental Release Measures

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### PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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## Section 7 - Handling and Storage

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### HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Suitable: Keep tightly closed. Store in a cool dry place. Store with desiccant.  
Store at 2-8°C

#### SPECIAL REQUIREMENTS

Moisture sensitive.

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### Section 8 - Exposure Controls / PPE

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#### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.  
Hand: Compatible chemical-resistant gloves.  
Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

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### Section 9 - Physical/Chemical Properties

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|                       |  |                            |
|-----------------------|--|----------------------------|
| Appearance            | Physical State: Solid<br>Color: White  |                            |
| Property              | Value  | At Temperature or Pressure |
| Molecular Weight      | 302.9 AMU  |                            |
| pH                    | N/A  |                            |
| BP/BP Range           | N/A  |                            |
| MP/MP Range           | 214.0 - 218.0 °C   |                            |
| Freezing Point        | N/A  |                            |
| Vapor Pressure        | N/A  |                            |
| Vapor Density         | N/A  |                            |
| Saturated Vapor Conc. | N/A  |                            |
| SG/Density            | N/A  |                            |
| Bulk Density          | N/A  |                            |
| Odor Threshold        | N/A  |                            |
| Volatile%             | N/A  |                            |
| VOC Content           | N/A  |                            |
| Water Content         | N/A  |                            |
| Solvent Content       | N/A  |                            |
| Evaporation Rate      | N/A  |                            |
| Viscosity             | N/A  |                            |
| Surface Tension       | N/A  |                            |
| Partition Coefficient | N/A  |                            |
| Decomposition Temp.   | N/A  |                            |
| Flash Point           | N/A  |                            |
| Explosion Limits      | N/A  |                            |
| Flammability          | N/A  |                            |
| Autoignition Temp     | N/A  |                            |
| Refractive Index      | N/A  |                            |
| Optical Rotation      | N/A  |                            |
| Miscellaneous Data    | N/A  |                            |
| Solubility            | Solubility in Water:Soluble.<br>Other Solvents: ETHANOL, CHLOROFORM,<br>METHANOL |                            |

N/A = not available

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## Section 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## Section 11 - Toxicological Information

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### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: Harmful if swallowed.

### SENSITIZATION

Sensitization: May cause allergic reaction.

### TARGET ORGAN(S) OR SYSTEM(S)

Heart. Central nervous system.

### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### TOXICITY DATA

Oral

Rat

871 mg/kg

LD50

Intraperitoneal

Rat

55 MG/KG

LD50

Intravenous

Rat

19 MG/KG

LD50

Oral

Mouse

315 mg/kg

LD50

Intraperitoneal

Mouse

88 MG/KG

LD50

Intravenous

Mouse

37 MG/KG

LD50

Remarks: Behavioral:Convulsions or effect on seizure threshold.  
Behavioral:Rigidity (includes catalepsy). Nutritional and Gross  
Metabolic:Changes in:Body temperature decrease.

Intravenous

Dog

25 MG/KG

LD50

#### CHRONIC EXPOSURE - TERATOGEN

Species: Mouse

Dose: 90 MG/KG

Route of Application: Subcutaneous

Exposure Time: (9D PREG)

Result: Effects on Embryo or Fetus: Fetal death. Specific

Developmental Abnormalities: Central nervous system.

#### CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat

Dose: 130 MG/KG

Route of Application: Subcutaneous

Exposure Time: (10-22D PREG)

Result: Effects on Newborn: Behavioral.

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#### Section 12 - Ecological Information

No data available.

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#### Section 13 - Disposal Considerations

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##### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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#### Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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#### Section 15 - Regulatory Information

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##### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 22-36/37/38-42/43

Risk Statements: Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

S: 22-24-26-36/37

Safety Statements: Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. Do not breathe dust.

US Statements: Target organ(s): Central nervous system. Heart.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

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#### Section 16 - Other Information

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#### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.