

**Material Safety Data Sheet**  
**ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1**

Printing date 01/12/2005

Reviewed on 01/12/2005

### 1 Identification of substance

- **Product details**
- **Trade name: Melarsomine Dihydrochloride**  
**IMMITICIDE®**
- **Item number: 2811**
- **Manufacturer/Supplier:**  
Merial Canada Inc.  
345 N. Boulevard Labbe  
Victoriaville, Quebec G6P 181  
Information Phone No.: 819-758-0506  
Merial Limited  
3239 Satellite Blvd.  
Duluth, Ga. 30096-4640  
1-888-MERIAL 1 (1-888-637-4251)
- **Emergency information:**  
Spill Information:  
CHEMTREC® 1-800-424-9300  
CHEMTREC® International 1+703-527-3887  
International calls 011+703-527-3887  
Reverse charges.

### 2 Composition/Data on components

- **Chemical characterization:**
- **CAS No. Description**  
128470-15-5 Melarsomine Dihydrochloride  
4-[(4,6-diamino-1,3,5-triazin-2-yl)amino]  
phenyldithioarsonite of di (2-aminoethy)l, dihydrochloride

### 3 Hazards identification

- **Hazard description:**



T Toxic

- **Information pertaining to particular dangers for man and environment:**  
R 20 Harmful by inhalation.  
R 25 Toxic if swallowed.  
R 36 Irritating to eyes.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and from company and regulatory data.

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· **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 0  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2  
Fire = 0  
Reactivity = 0

### 4 First aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:**

Remove to fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Seek immediate medical advice.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for a minimum of 15 minutes under running water. Get medical attention immediately.

· **After swallowing:**

Do not induce vomiting; immediately call for medical help.

Immediately call a doctor.

· **After self injection** Antidote: British Anti-Levisite (BAL)

### 5 Fire fighting measures

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards caused by the material, its products of combustion or resulting gases:**

May emit arsenic trioxide on combustion.

· **Protective equipment:**

Fire fighters should wear self-contained breathing apparatus and full protective equipment.

### 6 Accidental release measures

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

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- **Measures for cleaning/collecting:**  
 Dispose of contaminated material as waste according to section XIII.  
 Ensure adequate ventilation.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
 Avoid dust generation.  
 Store in cool, dry place in tightly closed containers.  
 Ensure good ventilation/exhaustion at the workplace.  
 Handle with care. Avoid jolting and impact.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Keep receptacle tightly sealed.  
 Store in a cool, dry, well ventilated place.
- **Recommended storage temperature:** < 30°C (86°F)

## 8 Exposure controls and personal protection

- **Components with limit values that require monitoring at the workplace:** Not required.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Keep away from foodstuffs, beverages.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.  
 Do not eat, drink, smoke or inhale.  
 Do not store food in the working area.
- **Breathing equipment:** If in particulate form, MSHA-NIOSH approved respirator for dust.
- **Protection of hands:**



Rubber or other impervious gloves

- **Eye protection:**



Tightly sealed goggles

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### 9 Physical and chemical properties

· **General Information**

**Form:** Powder  
**Color:** Whitish  
**Odor:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Product is not flammable.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Specific gravity:** Not determined.

· **Solubility in / Miscibility with**

**Water:** Soluble.

**Organic solvents:** 0.0 %

· **Solids content:** 100.0 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Materials to be avoided:** Oxidizing agents
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** Arsenic compounds

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

|      |      |  |
|------|------|--|
|      | LD50 | 22 mg/kg (IV) (rat)<br>59 mg/kg (IV) (mouse) |
| Oral | LD50 | 353 mg/kg (rat)<br>596 mg/kg (mouse)         |

- **Primary irritant effect:**
- **on the skin:** No irritating effect known.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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### 12 Ecological information

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

· **Product:**

· **Recommendation:** Dispose of as bio-medical waste.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **DOT regulations:**



- **Hazard class:** 6.1  
 · **Identification number:** UN2811  
 · **Packing group:** II  
 · **Proper shipping name (technical name):** TOXIC SOLID, ORGANIC, N.O.S. (Melarsomine Dihydrochloride 4-[(4,6-diamino-1,3,5-triazin-2-yl)amino] phenyldithioarsonite of di (2-aminoethyl), dihydrochloride)  
 · **Label:** 6.1

· **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 6.1 Toxic substances  
 · **Danger code (Kemler):** 60  
 · **UN-Number:** 2811  
 · **Packaging group:** II  
 · **Proper shipping name:** 3288 TOXIC SOLID, ORGANIC, N.O.S. (Melarsomine Dihydrochloride 4-[(4,6-diamino-1,3,5-triazin-2-yl)amino] phenyldithioarsonite of di (2-aminoethyl), dihydrochloride)

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**· Maritime transport IMDG:**



· **IMDG Class:** 6.1  
 · **UN Number:** 2811  
 · **Label** 6.1  
 · **Packaging group:** II  
 · **EMS Number:** F-A,S-A  
 · **Marine pollutant:** No  
 · **Proper shipping name:** TOXIC SOLID, ORGANIC, N.O.S. (Melarsomine Dihydrochloride 4-[(4,6-diamino-1,3,5-triazin-2-yl)amino] phenyldithioarsonite of di (2-aminoethy)l, dihydrochloride)

**· Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 6.1  
 · **UN/ID Number:** 2811  
 · **Label** 6.1  
 · **Packing group:** II  
 · **Proper shipping name:** TOXIC SOLID, ORGANIC, N.O.S. (Melarsomine Dihydrochloride 4-[(4,6-diamino-1,3,5-triazin-2-yl)amino] phenyldithioarsonite of di (2-aminoethy)l, dihydrochloride)

## 15 Regulations

**· Sara**

**· Section 355 (extremely hazardous substances):**

Substance is not listed.

**· Section 313 (Specific toxic chemical listings):**

Substance is not listed.

**· TSCA (Toxic Substances Control Act):**

Substance is not listed.

**· CA Proposition 65**

**· Chemicals known to cause cancer:**

Substance is not listed.

**· Chemicals known to cause reproductive toxicity:**

Substance is not listed.

**· Carcinogenesis potential categories**

**· EPA (Environmental Protection Agency)**

Substance is not listed.

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

Substance is not listed.

**· NTP (National Toxicology Program)**

Substance is not listed.

**· TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**· MAK (German Maximum Workplace Concentration)**

Substance is not listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

**· Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

**· Hazard symbols:**

T Toxic

**· Risk phrases:**

20 Harmful by inhalation.

25 Toxic if swallowed.

36 Irritating to eyes.

**· Safety phrases:**

1/2 Keep locked up and out of the reach of children.

9 Keep container in a well-ventilated place.

13 Keep away from food, drink and animal feedingstuffs.

20 When using do not eat or drink.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of ... .

29 Do not empty into drains.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately.

52 Not recommended for interior use on large surface areas.

**· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Contact: MSDS Coordinator, msds@merial.com**