

### Inhibitors, Agonists, Screening Libraries

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# Safety Data Sheet

Revision Date:Apr-20-2020Print Date:Apr-20-2020

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier			
Product name :	Melphalan		
Catalog No. :	HY-17575		
CAS No. :	148-82-3		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified uses :	Laboratory chemicals, manufacture of substances.		
1.3 Details of the supplier of the safety data sheet			
Company:	MedChemExpress USA		
Tel:	609-228-6898		
Fax:	609-228-5909		
E-mail:	sales@medchemexpress.com		
1.4 Emergency telephone number			

Emergency Phone #: 609-228-6898

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 2), H300

Skin sensitisation (Category 1), H317

Germ cell mutagenicity (Category 1B), H340

Carcinogenicity (Category 1A), H350

Reproductive toxicity (Category 2), H361

# 2.2 GHS Label elements, including precautionary statements



Signal word Danger Hazard statement(s) H300 Fatal if swallowed. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. Precautionary statement(s) P201 Obtain special instructions before use.

Pictogram

- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms:	L-PAM
Formula:	C13H18Cl2N2O2
Molecular Weight:	305.20
CAS No. :	148-82-3

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

### Eye contact

Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.

### Skin contact

Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

### Inhalation

Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouthto-mouth resuscitation.

### Ingestion

Wash out mouth with water; Do NOT induce vomiting; call a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2).

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

### 5.2 Special hazards arising from the substance or mixture

During combustion, may emit irritant fumes.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Refer to protective measures listed in sections 8.

#### 6.2 Environmental precautions

Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

### 6.3 Methods and materials for containment and cleaning up

Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Recommended storage temperature: 4°C, protect from light

\* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

Shipping at room temperature if less than 2 weeks.

### 7.3 Specific end use(s)

No data available.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### Components with workplace control parameters

This product contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

### **Engineering controls**

Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

### Personal protective equipment

Eye protection	Safety goggles with side-shields.
Hand protection	Protective gloves.
Skin and body protection	Impervious clothing.
Respiratory protection	Suitable respirator.
Environmental exposure controls	Keep the product away from drains, water courses or the soil. Clean
	spillages in a safe way as soon as possible.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

	Appearance	Solid
	Odor	No data available
	Odor threshold	No data available
	рН	No data available
	Melting/freezing point	No data available
	Boiling point/range	No data available
	Flash point	No data available
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available
	Vapor pressure	No data available
	Vapor density	No data available
	Relative density	No data available
	Water Solubility	No data available
	Partition coefficient	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
9.2	2 Other safety information	

No data available.

## **10. STABILITY AND REACTIVITY**

### 10.1 Reactivity

No data available.

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

### 10.6 Hazardous decomposition products

Under fire conditions, may decompose and emit toxic fumes. Other decomposition products - no data available.

### **11.TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

### Acute toxicity

Classified based on available data. For more details, see section 2

### Skin corrosion/irritation

Classified based on available data. For more details, see section 2

### Serious eye damage/irritation

Classified based on available data. For more details, see section 2

#### Respiratory or skin sensitization

Classified based on available data. For more details, see section 2

#### Germ cell mutagenicity

Classified based on available data. For more details, see section 2

### Carcinogenicity

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

#### Reproductive toxicity

Classified based on available data. For more details, see section 2

#### Specific target organ toxicity - single exposure

Classified based on available data. For more details, see section 2

### Specific target organ toxicity - repeated exposure

Classified based on available data. For more details, see section 2

#### Aspiration hazard

Classified based on available data. For more details, see section 2

#### Additional information

#### RTECS No.: AY3675000

This information is based on our current knowledge. However the chemical, physical, and toxicological properties have not been completely investigated.

### **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumlative potential

No data available.

#### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

#### 12.6 Other adverse effects

No data available.

### **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

### Product

Dispose substance in accordance with prevailing country, federal, state and local regulations.

### Contaminated packaging

Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

### **14. TRANSPORT INFORMATION**

#### DOT (US)

UN number: 2811 Class: 6.1 Packing group: II Proper shipping name: Toxic solids, organic, n.o.s. (Melphalan) Reportable Quantity (RQ): 1 lbs Poison Inhalation Hazard: No

### IMDG

UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Melphalan)

#### IATA

UN number: 2811 Class: 6.1 Packing group: II Proper shipping name: Toxic solid, organic, n.o.s. (Melphalan)

### **15. REGULATORY INFORMATION**

### SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards:

Acute Health Hazard, Chronic Health Hazard

#### Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components:

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New Jersey Right To Know Components:	
	CAS No.
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California Prop. 65 Components:	

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This product contains a chemical known to the State of California to cause cancer, developmental harm.

# **16. OTHER INFORMATION**

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### Caution: Product has not been fully validated for medical applications. For research use only.

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