

MATERIAL SAFETY DATA SHEET

**MORPHINE SULFATE**

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**SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS**

PRODUCT NAME: Morphine Sulfate, USP

SYNONYMS: N/A

MOLECULAR FORMULA:  $C_{34}H_{40}N_2O_{10}S$  MOLECULAR WEIGHT: 668.76

CHEMICAL NAME: 7,8-Didehydro-4,5-epoxy-17-methylmorphinan-3,6-diol sulfate salt (2:1) pentahydrate

CHEMICAL FAMILY: Narcotic analgesic (CII)

<u>INGREDIENT (CAS NUMBER)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Morphine sulfate (6211-15-0)	Pure material	N/A	N/A

**SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS**

BOILING POINT: N/A VAPOR PRESSURE: N/A

MELTING POINT: ~250°C (decomp.) VAPOR DENSITY: N/A

DENSITY: ~1.3 EVAPORATION RATE: N/A  
(BUTYL ACETATE = 1)

WATER SOLUBILITY: 1 gm/15.5 mL (@25°C) WATER REACTIVE: No

APPEARANCE AND ODOR: Fine, white, odorless powder.

**SECTION 3 - FIRE AND EXPLOSION DATA**

FLASH POINT (METHOD): N/A NFPA RATING: N/A

AUTOIGNITION TEMPERATURE: N/A



**SKIN CONTACT:** May cause slight irritation, absorption may occur through skin breakage or inflammation.

**INGESTION:** Narcotic. Human lethal dose estimated to be 120-250 mg of morphine sulfate. In addition to analgesic action, may cause gastric disturbance, nausea, vomiting, and constipation. Ingestion of large amounts may cause central nervous system depression, respiratory or cardiac collapse, coma and death.

**CHRONIC EFFECTS OF OVEREXPOSURE:** May cause addiction. Possible hypersensitization to this material.

**MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Sensitization may occur evidenced by skin rashes, cough, stuffy nose, asthma and other allergic complaints.

**OTHER PRECAUTIONS TO CONSIDER:** Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

**EYE CONTACT:** Flush with plenty of water for at least 15 minutes. Seek medical attention.

**SKIN CONTACT:** Flush area thoroughly with water for at least 15 minutes and seek immediate medical attention.

**INGESTION:** Flush mouth out with water and induce vomiting. Seek medical attention or contact a poison control center immediately.

<b>SECTION 6 - CONTROL AND PROTECTIVE MEASURES</b>
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**RESPIRATORY PROTECTION:** Use of a NIOSH/MSHA-approved dust/mist respirator is recommended.

**PROTECTIVE GLOVES:** Latex gloves recommended.

**EYE PROTECTION:** Safety glasses or goggles. Avoid wearing contact lenses when working with this or any chemical due to the possibility of increased severity of eye damage should contact occur.

**VENTILATION:** Source-capture local exhaust is recommended to avoid generation of significant airborne dust levels.

**OTHER PROTECTIVE EQUIPMENT:** It is recommended that a safety shower and eyewash station be maintained in the work area.

**HYGIENIC WORK PRACTICES:** Wash thoroughly after handling and remove and wash contaminated clothing before reuse.

**SECTION 7 - HANDLING AND STORAGE PRECAUTIONS**

**HANDLING PRECAUTIONS:** Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and wash any contaminated clothing before reuse.

**STORAGE PRECAUTIONS:** Store in a tightly closed container in a cool, dry location. Avoid exposure to direct sunlight. **SCHEDULE 2 (C-II) CONTROLLED SUBSTANCE.** Storage location must meet all applicable Drug Enforcement Agency regulations.

**SECTION 8 - SPILL AND DISPOSAL PROCEDURES**

**STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE:** Wearing suitable eye, hand, and respiratory protection sweep or vacuum up spillage and place in a tight container. Wash spill site. Wash thoroughly or shower after handling and wash all clothing before reuse.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

**SECTION 9 - DISCLAIMER**

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**DEFINITIONS OF ABBREVIATIONS USED:**

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service
IARC:	Internal Agency for Research on Cancer
IDLH:	Immediately Dangerous to Life or Health level
LC <sub>50</sub> :	Median Lethal Concentration
LD <sub>50</sub> :	Median Lethal Dose
MSHA:	Mine Safety and Health Administration
N/A:	Not available
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average

