

Section 1: Identification

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| Common Name/Trade Name | MORPHINE SULFATE USP | |
| Supplier Information | Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693 | IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours) |
| Product Synonym(s) | 7,8-didehydro-4,5-epoxy-17-methylmorphinan-3,6-diol sulfate pentahydrate * Morphine Sulfate | |
| Relevant Use(s) of Product | Manufacture or Compounding of Substances | |

Section 2: Hazards Identification

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| Classification of Substance or Mixture | Acute toxicity, Oral (Category 3), Acute toxicity, Dermal (Category 3), Acute toxicity, Inhalation (Category 3), Sensitization, Respiratory (Category 1), Sensitization, Skin (Category 1), Specific target organ toxicity, single exposure (Category 3) narcotic effects | |
| Signal Word | Danger | |
| Hazard Statement(s) | H301 H311 H317 H331 H334 H336 | Toxic if swallowed Toxic in contact with skin May cause an allergic skin reaction Toxic if inhaled May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause drowsiness or dizziness |
| Pictogram(s) |  | |
| Precautionary Statement(s) | P261 P264 P270 P271 P272 P280 P285 P301+P310 P302+P352 P304+P340 P312 P330 P333+P313 P342+P311 P361 P363 P405 P501 | Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. IF SWALLOWED Immediately call a POISON CENTER or doctor/physician. IF ON SKIN Wash with soap and water. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. If skin irritation or a rash occurs Get medical advice/attention. If experiencing respiratory symptoms Call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant. |
| Hazards Not Otherwise Classified | No data available | |
| Ingredient(s) with Unknown Toxicity | No data available | |

Section 3: Composition/Information on Ingredients

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| Chemical Name | 7,8-didehydro-4,5-epoxy-17-methylmorphinan-3,6-diol sulfate pentahydrate * Morphine Sulfate |
| Common Name | MORPHINE SULFATE |
| CAS Number | 6211-15-0 |
| Impurities and/or Stabilizing Additives | No data available |

Section 4: First Aid Measures

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| General Advice | In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. |
| If Inhaled | If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with one-way valve or other proper respiratory medical advice. Get medical attention immediately. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. |
| In Case of Skin Contact | Get medical attention if symptoms occur: IF ON SKIN: Gently wash with plenty of soap and water. Remove and isolate contaminated clothing and shoes. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists. Wash clothing separately before reuse. |
| In Case of Eye Contact | Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention immediately. |
| If Swallowed | IF SWALLOWED: Immediately call POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with one way valve or other proper respiratory medical advice. Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content doesn't get in lungs. |
| Most Important Symptoms and Effects | In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |

Section 5: Fire Fighting Measures

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| Suitable Extinguishing Media | Alcohol foam. Water. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| Special Hazards Arising From the Substance/Mixture | By heating and fire, toxic vapors/gases may be formed. Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. |
| Special PPE and/or Precautions for Firefighters | In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers exposed to flames with water until well after the fire is out. Follow handling guidance appropriate for OEB-2 potent compounds, (see section 7). |

Section 6: Accidental Release Measures

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| Personal Precautions, Protective Equipment and Emergency Procedures | Ensure adequate ventilation. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be detained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with spilled material. Avoid inhalation of dust from the spilled material. Ventilate closed spaces before entering them. Follow handling guidance appropriate for OEB-2 potent compounds. |
| Methods and Materials Used for Containment | Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Collect spillage. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas. Do not flush to sewer. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. Use only non-sparking tools. Clean surface thoroughly to remove residual contamination. All clean-up operations should be witnessed by more than one individual. The amount of material collected should be assessed and documented. For waste disposal, see section 13 of the SDS. |
| Cleanup Procedures | Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Collect spillage. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas. Do not flush to sewer. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. Use only non-sparking tools. Clean surface thoroughly to remove residual contamination. All clean-up operations should be witnessed by more than one individual. The amount of material collected should be assessed and documented. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |

Section 7: Handling and Storage

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| Precautions for Safe Handling | Do not breathe dust. Do not use in areas without adequate ventilation. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid breathing dust. Keep formation of airborne dust to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Use personal protective equipment as required. Do not ingest. Avoid contact with skin and eyes. Wash thoroughly after handling. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Ground and bond containers when transferring material. Use non-sparking tools and explosion proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment. Handle and open container with care. |
| Conditions for Safe Storage | Store locked up. Keep container tightly closed. Store in a cool, dry place. Store in a well-ventilated place. Guard against dust accumulation of this material. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Use care in handling/storage. Store in accordance with local/regional/national/international regulation. CONTROLLED SUBSTANCE: Location of storage area must comply with all Drug Enforcement Agency regulations. |

Section 8: Exposure Controls/Personal Protection

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| Components with Workplace Control Parameters | Component: Morphine Sulfate T type: OEB Value 2 OEB T type: OEG Value: 25 ug/m3 Form: 8-hour time-weighted average T type: STEG 75 ug/m3 Form: 15-minute Average |
| Appropriate Engineering Controls | Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. In engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. If material is ground, cut or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposures limits. Ensure adequate ventilation, especially in confined areas. When using, do not eat, drink or smoke. Avoid breathing dust. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practice. See Section 7 for additional information on occupational control measures appropriate for OEB-2 potent compounds. |
| PPE - Eye/Face Protection | Chemical goggles are recommended. Provide eyewash station and safety shower. |
| PPE - Skin Protection | Wear appropriate gloves, lab coat, nylon coveralls or disposable Tyvek suit, safety glasses, safety shoes, and disposable booties. |
| PPE - Body Protection | Wear appropriate gloves, lab coat, nylon coat coveralls or disposable Tyvek suit, safety glasses, safety shoes, and disposable booties. |
| PPE - Respiratory Protection | Where open handling of powder occurs, use a powdered, air-purifying respirator (PAPR) with HEPA cartridges or a supplied-air respirator (SAR), unless air-monitoring data has shown that a lower level of respiratory protection is adequate. |

Section 9: Physical and Chemical Properties

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| Appearance | Form: Solid Powder Colour: White |
| Upper/Lower Flammability or Explosive Limits | No data available |
| Odor | odourless |
| Vapor Pressure | No data available |
| Odor Threshold | No data available |
| Vapor Density | No data available |
| pH | No data available |
| Relative Density | No data available |
| Melting Point/Freezing Point | 482 °F (250 °C) |
| Solubility | Solubility (water) Slight |
| Initial Boiling Point and Boiling Range | No data available |
| Flash Point | No data available |
| Evaporation Rate | No data available |
| Flammability (Solid, Gas) | No data available |
| Partition Coefficient | No data available |
| Auto-Ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No data available |

Section 10: Stability and Reactivity

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| Reactivity | No data available |
| Chemical Stability | Material is stable under normal conditions. Discoloration upon exposure to light. |
| Possibility of Hazardous Reactions | No data available |
| Conditions to Avoid | Avoid spread of dust. Heat, flames and sparks. Light. |
| Incompatible Materials | Alkalis, Lead acetate. Chlorides. Strong oxidizing agents. Ferric salts. Iodides. |
| Hazardous Decomposition Products | Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. |

Section 11: Toxicological Information

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| Acute Toxicity - LD50 Oral | LD50 Oral Mouse 600 mg/kg Rat 461 mg/kg |
| Acute Toxicity - Inhalation | Toxic by inhalation. Narcotic effect. May cause typical symptoms of narcosis (see Ingestion.) Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation of powder/dust may cause lung edema. May cause sensitization by inhalation. |
| Acute Toxicity - Dermal | Toxic in contact with skin. May produce narcotic effects if absorbed through skin. May cause skin irritation. May cause an allergic skin reaction. May cause sensitization by skin contact. |
| Acute Toxicity - Eye | Dust or powder may irritate eye tissue. May have a strong narcotic effect (pupil constriction) and the eye may serve as an absorption route into the body. |
| Skin Corrosion/Irritation | Due to lack of data the classification is not possible. |
| Serious Eye Damage/Irritation | Due to lack of data the classification is not possible. |
| Respiratory or Skin Sensitization | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Germ Cell Mutagenicity | Due to lack of data the classification is not possible. |
| Carcinogenicity IARC | This product is not considered to be a carcinogen by IARC. |
| Carcinogenicity ACGIH | This product is not considered to be carcinogen by ACGIH. |
| Carcinogenicity NTP | This product is not considered to be carcinogen by NTP. |
| Carcinogenicity OSHA | This product in not considered to be carcinogen by OSHA. |
| Reproductive Toxicity | No data available |
| Specific Target Organ Toxicity - Single Exposure | No data available |
| Specific Target Organ Toxicity - Repeated Exposure | No data available |
| Aspiration Hazard | No data available |

Section 12: Ecological Information

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| Toxicity | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. |
| Persistence and Degradability | No data available |
| Bio-accumulative Potential | No data available |
| Mobility in Soil | No data available |
| Other Adverse Effects | No data available |

Section 13: Disposal Considerations

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| Waste Treatment Methods Product | Notify site Drug Enforcement Agency compliance officer and local DEA office for appropriate disposal procedures. Processing, use or contamination of tis product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Follow handling guidance appropriate for OEB-2 potent compounds. |
| Waste Treatment Methods Packaging | Dispose of contents/container in accordance with regulated regulations. |
| Special Precautions Landfill or Incinerations | No data available |
| Other Information | No data available |

Section 14: Transport Information

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| UN Number | Not dangerous goods. |
| UN Proper Shipping Name | N/A |
| Transport Hazard Class(es) | N/A |
| Packaging Group | N/A |
| Environmental Hazards | N/A |

Section 15: Regulatory Information

This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable. TSCA exempt status. CERCLA (Superfund) reportable quantity None Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories: Immediate Hazard -Yes Delayed Hazard-Yes Fire Hazard -No Pressure Hazard - No Reactivity Hazard -No SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical No. Drug Enforcement: Schedule II-9300. State Regulations: This product does not contain a chemical know to State of California to cause cancer, birth defects or other reproductive harm.

Section 16: Other Information

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| Additional Information | N/A |
| Prepared By | Scarlotte Smith |
| Revision Date | 06/11/2019 13:49 |

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