

Section 1: Identification	
Common Name/Trade Name	HYDROMORPHONE HCL USP
Supplier Information	<p>Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693</p> <p>IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)</p>
Product Synonym(s)	Dihydromorphinone hydrochloride * Hydromorphone Hydrochloride USP (np) * 4,5 alpha-epoxy-3-hydroxy-17-methyl morphinan-6-one hydrochloride * Hydromorphone Hydrochloride Analytical Research Standard-(FOR R&D USE ONLY)
Relevant Use(s) of Product	Manufacture or Compounding of Substances

Section 2: Hazards Identification	
Classification of Substance or Mixture	Acute toxicity, oral Category 2, Acute toxicity, dermal Category 2, Acute toxicity, inhalation Category 2, Sensitization, respiratory Category 1, Sensitization, skin Category 1, Reproductive toxicity Category 2, Specific target organ toxicity, single exposure Category 3 narcotic effects
Signal Word	Danger
Hazard Statement(s)	<p>H300 Fatal if swallowed</p> <p>H310 Fatal in contact with skin</p> <p>H317 May cause an allergic skin reaction</p> <p>H330 Fatal if inhaled</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H336 May cause drowsiness or dizziness</p> <p>H361 Suspected of damaging fertility or the unborn child</p>
Pictogram(s)	
Precautionary Statement(s)	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P262 Do not get in eyes, on skin, or on clothing.</p> <p>P264 Wash hands thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P285 In case of inadequate ventilation wear respiratory protection.</p> <p>P301+P310 IF SWALLOWED Immediately call a POISON CENTER or doctor/physician.</p> <p>P302+P352 IF ON SKIN Wash with soap and water.</p> <p>P304+P340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P308+P313 IF exposed or concerned Get medical advice/attention.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P330 Rinse mouth.</p> <p>P333+P313 If skin irritation or a rash occurs Get medical advice/attention.</p> <p>P342+P311 If experiencing respiratory symptoms Call a POISON CENTER or doctor/physician.</p> <p>P362 Take off contaminated clothing and wash before reuse.</p> <p>P403+P233 Store in a well ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container to an approved waste disposal plant.</p>
Hazards Not Otherwise Classified	None known.
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients	
Chemical Name	HYDROMORPHONE HYDROCHLORIDE
Common Name	HYDROMORPHONE HYDROCHLORIDE
CAS Number	71-68-1
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
If Inhaled	If dust 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 a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
In Case of Skin Contact	Immediately flush skin with plenty of water. For minor skin contact, avoid spreading material on unaffected skin. Remove and isolate contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/attention. Wash clothing separately before reuse.
In Case of Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
If Swallowed	If swallowed: Immediately call a poison center/doctor. 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 a one-way valve or other proper respiratory medical device. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most Important Symptoms and Effects	Narcotic effect. Exposure may cause sedation, pinpoint pupils, mood alterations, nausea, vomiting, constipation, respiratory depression; also tolerance, dependence and withdrawal. Large doses can lead to respiratory or cardiac arrest and death. May cause allergic respiratory and skin reactions. Decrease in motor functions. Respiratory disorder. Dusts may irritate the respiratory tract, skin and eyes. Indication of immediate medical attention and special treatment needed in case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Flammable properties The product is not flammable. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Dust may form explosive mixture with air. Dust accumulation from this product may present an explosion hazard in the presence of an ignition source. Suitable extinguishing media Water. Foam. Dry chemical powder. Carbon dioxide (CO ₂). Apply extinguishing media carefully to avoid creating airborne dust. Unsuitable extinguishing media None known.
Special Hazards Arising From the Substance/Mixture	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	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Fire-fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move container from fire area if it can be done without risk. Specific methods Cool containers exposed to flames with water until well after the fire is out. General fire hazards May form combustible dust concentrations in air.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Immediately evacuate personnel to safe areas. Ensure adequate ventilation. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. 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. Do not breathe dust. Ventilate closed spaces before entering them.
Methods and Materials Used for Containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. Environmental precautions Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Cleanup Procedures	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. Environmental precautions 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

Precautions for Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe dust. Minimize dust generation and accumulation. Keep formation of airborne dusts to a minimum. Dust may form explosive mixture with air. Provide appropriate exhaust ventilation at places where dust is formed. Use personal protective equipment as required. Take precautionary measures against static discharges. Static electricity and formation of sparks must be prevented. 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. Do not ingest. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. When using, do not eat, drink or smoke. Handle and open container with care. Avoid release to the environment.
Conditions for Safe Storage	Store locked up. Keep container tightly closed. Keep out of the reach of children. Store in a cool, dry place. Store in a well-ventilated place. Guard against dust accumulation of this material. 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. Keep away from heat and sources of ignition. Use care in handling/storage. Store in accordance with local/regional/national/international regulation. Further information CONTROLLED SUBSTANCE: Location of storage area must comply with all Drug Enforcement Agency or competent authority regulations.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	OEL 7 $\mu\text{g}/\text{m}^3$ 8-hour time-weighted average HYDROMORPHONE HYDROCHLORIDE (CAS 71-68-1) STEL 30 $\mu\text{g}/\text{m}^3$ 15-minute time-weighted average Biological limit values No biological exposure limits noted for the ingredient(s).
Appropriate Engineering Controls	Explosion-proof general and local exhaust ventilation. To prevent contamination and overexposure, no open handling of powder should be allowed. Powder handling operations are to be done in a powder weighing hood, a glove box, or other equivalent ventilated containment system. In situations where these ventilated containment hoods have not been installed, a non-ventilated enclosed containment hood should be used. Pending changes resulting from additional air monitoring data, up to 300 mg can be handled outside of an enclosure provided that no grinding, crushing or other dust-generating process occurs. See Section 7 for additional information on proper handling and venting requirements for potent compounds. When using, do not eat, drink or smoke. Do not breathe dust. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.
PPE - Eye/Face Protection	Chemical goggles are recommended. Provide eyewash station and safety shower.
PPE - Skin Protection	Wear protective gloves.
PPE - Body Protection	Wear appropriate gloves; lab coat, nylon coveralls or disposable Tyvek suit; safety glasses, safety shoes, and disposable booties. Thermal hazards Wear appropriate thermal protective clothing, when necessary.
PPE - Respiratory Protection	An air-purifying respirator (P95 or other type providing a higher level of protection) should be worn by all personnel in the immediate area in cases where non-ventilated containment is used, where significant amounts of material (e.g., more than 2 grams) are used, or where the material may become airborne (as through grinding, etc.). If using a ventilated enclosure that has not been validated, wear a half-mask respirator equipped with HEPA cartridges until the enclosure is validated for use. See Section 7 for additional information on proper handling and respirator recommendations for potent compounds.

Section 9: Physical and Chemical Properties

Appearance	Appearance: Powder. Physical state: Solid. Form: Powder. Color: White.
Upper/Lower Flammability or Explosive Limits	Not available
Odor	Odorless
Vapor Pressure	Not available
Odor Threshold	Not available
Vapor Density	Not available
pH	Not available
Relative Density	1.3 g/cm ³
Melting Point/Freezing Point	590 °F (310 °C)
Solubility	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not available
Partition Coefficient	Not available
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Discoloration upon exposure to light.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Avoid dust formation. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Exposure to light. Heat, flames and sparks. Contact with incompatible materials.
Incompatible Materials	Strong oxidizing agents. Peroxides. Alkalies. Chlorides. Iodides. Lead acetate. Metal salts.
Hazardous Decomposition Products	Toxic gas.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	No data available. Fatal if swallowed. Narcotic effect. Exposure may cause sedation, pinpoint pupils, mood alterations, nausea, vomiting, constipation, respiratory depression; also tolerance, dependence and withdrawal. Dizziness. May cause central nervous system depression. Large doses can lead to respiratory or cardiac arrest and death.
Acute Toxicity - Inhalation	No data available. Fatal if inhaled. 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	No data available. Fatal 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. Symptoms may parallel ingestion.
Acute Toxicity - Eye	No data available. 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	May be irritating to the skin.
Serious Eye Damage/Irritation	Dust in the eyes will cause irritation.
Respiratory or Skin Sensitization	Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization May cause an allergic skin reaction.
Germ Cell Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity IARC	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Carcinogenicity ACGIH	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Carcinogenicity NTP	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Carcinogenicity OSHA	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity	Possible reproductive hazard. Potential embryo-fetal toxicity and teratogenicity. Suspected of damaging fertility or the unborn child. Avoid exposure to women during early pregnancy.
Specific Target Organ Toxicity - Single Exposure	Narcotic effects.
Specific Target Organ Toxicity - Repeated Exposure	Not available.
Aspiration Hazard	Not available.

Section 12: Ecological Information

Toxicity	This product has no known eco-toxicological effects.
Persistence and Degradability	No data is available on the degradability of this product.
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Notify site Controlled Substance Compliance officer and local DEA office or competent authority for appropriate disposal procedures. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste Treatment Methods Packaging	Waste codes should be assigned by the user based on the application for which the product was used. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste from residues / unused products Dispose of in accordance with local regulations. Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	UN2811
UN Proper Shipping Name	Toxic solids, organic, n.o.s. (HYDROMORPHONE HYDROCHLORIDE)
Transport Hazard Class(es)	6.1 (PGI, II)
Packaging Group	II
Environmental Hazards	No.

Section 15: Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA exempt status. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. CERCLA (Superfund) reportable quantity None Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous chemical Yes Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act (SDWA) Not regulated. Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Schedule II - 9150 US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. US. Massachusetts RTK - Substance List Not regulated. US. New Jersey Worker and Community Right-to-Know Act Not listed. US. Pennsylvania Worker and Community Right-to-Know Law Not listed. US. Rhode Island RTK Not regulated. US. California Proposition 65 Not Listed. International Inventories Country(s) or region Inventory name On inventory (yes/no)* Australia Australian Inventory of Chemical Substances (AICS) No Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) No Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No Philippines Philippine Inventory of Chemicals and Chemical Substances No (PICCS) United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16: Other Information

Additional Information	N/A
Prepared By	Lisa Russell
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Disclaimer

Letco Medical, LLC believes that the above information is 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. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. Letco Medical shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.