

Section 1: Identification	
Common Name/Trade Name	HYDROCORTISONE USP
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693
Product Synonym(s)	N/A
Relevant Use(s) of Product	Manufacture or Compounding of Substances

Section 2: Hazards Identification	
Classification of Substance or Mixture	Reproductive toxicity (Category 2)
Signal Word	Warning
Hazard Statement(s)	H361 Suspected of damaging fertility or the unborn child
Pictogram(s)	
Precautionary Statement(s)	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required. P308+P313 IF exposed or concerned Get medical advice/attention. P405 Store locked up.
Hazards Not Otherwise Classified	Very strong dust explosion characteristic. Very high sensitivity to ignition.
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients	
Chemical Name	N/A
Common Name	Hydrocortisone
CAS Number	50-23-7
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures	
General Advice	No data available
If Inhaled	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
In Case of Skin Contact	Wash exposed area with soap and water, remove contaminated clothing and obtain medical assistance if irritation occurs. This material may not be completely removed by conventional laundering. Consult professional laundry service. Do not home launder.
In Case of Eye Contact	Flush eye(s) immediately with plenty of water. If irritation occurs or persists, get medical attention.
If Swallowed	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Most Important Symptoms and Effects	For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification. Medical Conditions Aggravated by Exposure: None known. Notes to Physician: None. Information on Toxicological Effects: May cause minimal eye irritation (based on animal data). May be harmful if swallowed. May be harmful if absorbed through the skin. Accidental ingestion may cause effects similar to those seen in clinical use. Long Term: Known Clinical Effects: Animal studies have shown a potential to cause adverse effects on the fetus. Ingestion of this material may cause effects similar to those seen in clinical use including nausea, vomiting, muscle cramps, weakness, nervousness, restlessness, trouble sleeping. Clinical use has resulted in changes in electrolytes and/or blood chemistry changes. Drugs of this class may cause Cushing's syndrome, manifested by moon face, obesity, headache, acne, thirst, increased urination, impotence, menstrual irregularities, facial hair growth, and mental changes. Clinical use may cause an increase in blood pressure (hypertension).

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Extinguish fires with CO ₂ , extinguishing powder, foam, or water.
Special Hazards Arising From the Substance/Mixture	Formation of toxic gases is possible during heating or fire. May include oxides of carbon. Very strong dust explosion characteristic. Very high sensitivity of a dust cloud to ignition, based on minimum ignition energy.
Special PPE and/or Precautions for Firefighters	During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.
Methods and Materials Used for Containment	Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
Cleanup Procedures	Contain the source of the spill if it is safe to do so. Collect spilled material by a method that controls dust generation. Avoid use of a filtered vacuum to clean spills of dry solids, due to the potential for electrostatic discharge and the very strong dust explosion characteristic and very high sensitivity to ignition. Additional consideration for Large Spills: Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

Section 7: Handling and Storage

Precautions for Safe Handling	Ground and bond all bulk transfer equipment. Avoid open handling. Minimize dust generation. All conductive elements of the system that contact the dry substance should be properly bonded and grounded and equipped with proper explosion relief or suppression systems. This material should not be flowed through nonconductive ducts or pipes because of the potential for electrostatic discharge ignition. Restricting the use of high resistivity materials, such as plastics, should be considered. Use local exhaust ventilation or perform work under fume hood/fume cupboard. Avoid inhalation and contact with skin, eye, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.
Conditions for Safe Storage	Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Manufacturer OEL TWA-8 Hr: 100 µg/m ³ , Skin
Appropriate Engineering Controls	Engineering controls should be used as the primary means to control exposures. Use process containment, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
PPE - Eye/Face Protection	Wear safety glasses as minimum protection.
PPE - Skin Protection	Wear impervious gloves to prevent skin contact. Wear impervious protective clothing to prevent skin contact - consider use of disposable clothing where appropriate.
PPE - Body Protection	Wear impervious protective clothing to prevent skin contact - consider use of disposable clothing where appropriate.
PPE - Respiratory Protection	If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

Section 9: Physical and Chemical Properties

Appearance	Form: Crystalline powder Color: White to off-white
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
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	215 (decomposes)
Solubility	Solvent Solubility: Miscible: Acetone, Chloroform, Ethanol, Methanol Water Solubility: 0.28 mg/mL
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	(Method, pH, Endpoint, Value): Predicted 7.4 Log D 1.43
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable at normal conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Keep away from heat and other sources of ignition, including electrostatic discharge.
Incompatible Materials	As a precautionary measure, keep away from strong oxidizers
Hazardous Decomposition Products	No data available

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Rat Oral LD50 5000 mg/kg Mouse Oral LD50 5000 mg/kg
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	Rat Subcutaneous LD50 449 mg/kg Rat Intraperitoneal LD50 150 mg/kg
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Irritation	Eye Irritation Rabbit Minimal
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	Genetic Toxicity: (Study, Type, Cell Type/Organism, Result) Bacterial Mutagenicity (Ames) Salmonella Negative. Unscheduled DNA Synthesis Rat Negative
Carcinogenicity IARC	Not listed as a carcinogen by IARC.
Carcinogenicity ACGIH	No data available
Carcinogenicity NTP	Not listed as a carcinogen by NTP.
Carcinogenicity OSHA	Not listed as a carcinogen by US OSHA
Reproductive Toxicity	(Study Type, Species, Route, Dose, End Point, Effect(s)) Embryo/Fetal Development Mouse Oral 10 mg/kg/day LOAEL Teratogenic. Reproductive & Fertility Rat Oral 210 mg/kg/day LOAEL Maternal Toxicity.
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	(Duration, Species, Route, Dose, End Point, Target Organ): 7 Day(s) Mouse Oral 140 mg/kg/day LOAEL Thymus. 4 Day(s) Mouse Subcutaneous 100 mg/kg/day LOAEL Liver. 2 Week(s) Mouse Subcutaneous 560 mg/kg/day LOAEL Liver, Bone Marrow. 85 Day(s) Rat Subcutaneous 175 mg/kg/day LOAEL Adrenal gland
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided.
Persistence and Degradability	No data available
Bio-accumulative Potential	Partition Coefficient: (Method, pH, Endpoint, Value): Predicted 7.4 Log D 1.43
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.
Waste Treatment Methods Packaging	Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	No data available

Section 15: Regulatory Information

Canada - WHMIS: Classifications WHMIS hazard class: Class D, Division 2, Subdivision A CERCAL/SARA 313 Emission reporting: Not Listed. California Proposition 65: Not Listed. Inventory - United States - TSCA - Sect. 8(b): Present. Australia (AICS): Present. Standard for the Uniform Scheduling for Drugs and Poisons: Schedule 2, Schedule 3, Schedule 4. EU EINECS/ELINCS List: 200-020-1

Section 16: Other Information

Additional Information	N/A
Prepared By	Lisa Russell
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