

MATERIAL SAFETY DATA SHEET

**HYDROCORTISONE ACETATE**

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

PRODUCT: Hydrocortisone Acetate USP

SYNONYMS: Cortisol Acetate

MOLECULAR FORMULA:  $C_{23}H_{32}O_6$

MOLECULAR WEIGHT: 404.51

CHEMICAL FAMILY: Steroid

<u>INGREDIENT (CAS #)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Hydrocortisone Acetate (50-03-3)	100	N/A	N/A

**SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS**

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

MELTING POINT: N/A VAPOR DENSITY: N/A

SPECIFIC GRAVITY: N/A EVAPORATION RATE: N/A  
(WATER = 1) (BUTYL ACETATE = 1)

WATER SOLUBILITY: 1 mg/100 ml WATER REACTIVE: No

APPEARANCE AND ODOR: White to practical white powder. Odorless.

**SECTION 3 - FIRE AND EXPLOSION DATA**

FLASH POINT (METHOD): N/A

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May produce toxic fumes if heated to decomposition.

**SECTION 4 - REACTIVITY HAZARD DATA**

STABILITY: Stable ( X ) Unstable ( )

INCOMPATIBILITY (MATERIALS TO AVOID): None.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce toxic fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur ( ) Will Not Occur ( X )

**SECTION 5 - HEALTH HAZARD DATA**

TOXICITY: LD50: (intraperitoneal - rat) 2300 mg/kg  
(subcutaneous - mouse) 45.05 mg/kg

CARCINOGEN LISTED BY:	NTP	Yes ( )	No ( X )
	IARC	Yes ( )	No ( X )
	OSHA	Yes ( )	No ( X )
	Other	Yes ( )	No ( X )

ROUTES OF ENTRY: Inhalation, ingestion, absorption, contact.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: May cause irritation of respiratory tract or allergic reaction.

EYE CONTACT: May cause irritation or allergic reaction.

SKIN CONTACT: May cause irritation or allergic reaction.

INGESTION: May cause irritation of gastrointestinal tract or allergic reaction.

CHRONIC EFFECTS OF OVEREXPOSURE: Possible hypersensitization.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Hypersensitivity to this material. Systemic fungal infection.

OTHER PRECAUTIONS TO CONSIDER: Persons developing serious hypersensitivity (anaphylactic) reactions must receive medical attention immediately. Exposure may cause suppression of adrenal gland secretion, Cushing's syndrome, water retention, electrolyte imbalance, hyperglycemia.

**EMERGENCY FIRST AID PROCEDURES:**

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

**EYE CONTACT:** Flush with water for at least 15 minutes. If irritation persists or develops, seek medical attention.

**SKIN CONTACT:** Wash with soap and water. If irritation persists or develops, seek medical attention.

**INGESTION:** Flush mouth with water and seek medical attention.

<b>SECTION 6 - CONTROL AND PROTECTIVE MEASURES</b>
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**RESPIRATORY PROTECTION:** NIOSH-approved respirator.

**PROTECTIVE GLOVES:** Rubber.

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

**VENTILATION:** Use local ventilation if airborne levels are high.

**OTHER PROTECTIVE EQUIPMENT:** Appropriate laboratory apparel.

**HYGIENIC WORK PRACTICES:** Do not eat, drink or smoke near this material. Wash any contaminated clothing before reuse.

<b>SECTION 7 - HANDLING AND STORAGE PRECAUTIONS</b>
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**HANDLING PRECAUTIONS:** Avoid contact with skin, eyes or clothing. Avoid breathing dust.

**STORAGE PRECAUTIONS:** Store in tight containers in a cool, dry place.

**OTHER PRECAUTIONS:** Wash any exposed skin areas after handling. Wash any contaminated clothing before reuse.

**SECTION 8 - SPILL AND DISPOSAL PROCEDURES**

**STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE:** Wear all protective clothing including respirator, gloves and safety glasses/goggles. Vacuum or sweep up spillage and place in a tight container. Wash spill area with soap and water. Wash any exposed skin area and wash contaminated 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

LC50: Median Lethal Concentration

LD50: Median Lethal Dose

N/A: Not available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value