

MATERIAL SAFETY DATA SHEET

ERYTHROMYCIN

PADDOCK LABORATORIES, INC. 3940 QUEBEC AVENUE NORTH MINNEAPOLIS, MINNESOTA 55427 PHONE: (612)-546-4676	<u>EMERGENCY ASSISTANCE:</u> CHEMTREC 800-424-9300 202-483-7616 PADDOCK TECH. ASST. 800-328-5113
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DATE PREPARED: 8-28-89 BY: Patrick L. Johnson

SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT: Erythromycin USP

SYNONYMS: Erythromycin A, Erythrocin

MOLECULAR FORMULA: $C_{37}H_{67}NO_{13}$ MOLECULAR WEIGHT: 733.92

CHEMICAL FAMILY: Antibiotic

INGREDIENT (CAS #)	%	OSHA PEL	ACGIH TLV
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Erythromycin (114-07-8)	100	N/A	N/A
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SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

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

MELTING POINT: 135-140°C VAPOR DENSITY: N/A

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

WATER SOLUBILITY: 2 mg/ml WATER REACTIVE: No

APPEARANCE AND ODOR: White, crystalline powder. Practically 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: As with any organic compound, this material may produce toxic fumes if heated to decomposition.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): None reported.

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: Reported toxic effects are rare and usually mild.

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 the respiratory tract.

EYE CONTACT: May cause irritation.

SKIN CONTACT: May cause irritation.

INGESTION: May cause irritation of the gastrointestinal tract.

CHRONIC EFFECTS OF OVEREXPOSURE: In rare cases may cause hypersensitization.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Hypersensitization to erythromycin.

EMERGENCY FIRST AID PROCEDURES: Any person developing hypersensitivity (anaphylactic) reactions must seek receive immediate medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if respiration difficulty or irritation develops or persists.

EYE CONTACT: Flush with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

SKIN CONTACT: Flush with water. Seek medical attention if irritation develops or persists.

INGESTION: Rinse mouth out with water. Seek medical attention or contact a poison control center immediately.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Use of a NIOSH-approved respirator is recommended.

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 exhaust if high levels of airborne dust are present.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

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

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eyes, skin or clothing and avoid breathing dust.

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

OTHER PRECAUTIONS: Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear all protective equipment including respirator, gloves, and goggles. Vacuum or sweep up spillage and place in a tight container. Wash spill area with soap and water. Wash thoroughly after handling and wash all clothing and protective gear 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

LD₅₀: Median Lethal Dose

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