

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	ERYTHROMYCIN, USP
PRODUCT CODE	0842
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670
RECOMMENDED USES	Manufacturing and Compounding
RESTRICTIONS ON USE	Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Eye Irritation (Category 2B) Acute Toxicity - Oral (Category 5) Acute Aquatic Toxicity (Category 1) PICTOGRAM SIGNAL WORD Warning HAZARD STATEMENT(S) Causes eye irritation. May be harmful if swallowed. Very toxic to aquatic life. ADVERSE PHYSIOCHEMICAL, HUMAN Repeated exposure may cause skin dryness or cracking. HEALTH AND ENVIRONMENTAL EFFECTS PRECAUTIONARY STATEMENT(S) Prevention Wash hands thoroughly after handling. Do not touch eyes. Avoid release to the environment. Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help. IF SWALLOWED: Get medical help. COLLECT SPILLAGE Storage Not applicable



	Disposal Di	Dispose of contents and/or container in accordance with local regulations.					
HMIS CLASSIFICATION	Health Hazard	1	Flammability	0			
	Reactivity	0	Personal Protection	E			

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Erythromycin A: (3R*,4S*,5S*,6R*,7R*,9R*,11R*,12R*,13S*,14R*)-4-[(2,6-Dideoxy-3-C-methyl-α-L-ribo-hexopyranosyl)oxy]-14-ethyl-7,12,13-trihydroxy-3,5,7,9,11,13-hexamethyl-6-

	[[3,4,6-trideoxy-3-(dimethylamino)-β-D-xy			
BOTANICAL NAME	Not applicable			
SYNONYM	Not available			
CHEMICAL FORMULA	C37H67NO13			
CHEMICAL FAMILY	Macrocyclic lactone			
CAS NUMBER	114-07-8			
ALTERNATE CAS NUMBER	Not applicable			
MOLECULAR WEIGHT	733.94			
COMPOSITION	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
	ERYTHROMYCIN	114-07-8	204-040-1	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

NOTES

A bacteriostatic antibiotic macrolide. Erythromycin consists primarily of erythromycin A (C37H67NO13). The sum of the percentages of erythromycin A, erythromycin B, and erythromycin C is not less than 85.0 percent and not more than 100.5 percent, calculated on the anhydrous basis.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.				
IN CASE OF SKIN CONTACT	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.				
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.				
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.				
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.				

SYMPTOMS CAUSED BY EXPOSURE

Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	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.
FLAMMABLE PROPERTIES	May be combustible at high temperature.
HAZARDOUS COMBUSTION PRODUCTS	Under fire conditions, hazardous fumes will be present.



SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

NOTES

Small fire: dry chemical, CO₂ or water spray. **Large fire:** dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Dust explosion properties Kst 176 bar.m/s Minimum explosible concentration (MEC) 35 g/m^a Minimum ignition energy (MIE) – dust cloud 50 mJ

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.					
METHODS & MATERIAL FOR CONTAINMENT	On land, sweep or shovel into suitable containers. Minimize generation of dust.					
CLEANUP PROCEDURE	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.					
REFERENCE TO OTHER SECTIONS	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.					

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
CONDITIONS FOR SAFE STORAGE	Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
STORAGE CONDITIONS	Store in original container, tightly sealed, protected from direct sunlight and moisture.
	Short term excursions, temperature excursions as experienced during shipping and warehousing, up to 40°C are acceptable.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: ERYTHROMYCIN CAS #: 114-07-8

	Country	Limit valu	ie-8 hours	Limit value-	Short Term	IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A



HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³ PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a thermal hazard, appropriate Personal Protective Equipment should be used. SPECIFIC ENGINEERING CONTROLS Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower. **BIOLOGICAL MONITORING** Not available CONTROL BANDING Not available NOTES USP: ELV: Industrial: TWA: 0.1 mg/m³

Pharmacologically active material. Occupational exposure may cause physiological effects.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid							
DESCRIPTION	White or slightly yellow, crystalline powder. Is odorless or practically odorless. Slightly hygroscopic.							
SOLUBILITY	Slightly soluble in water;	soluble in alcohol, in chloroform, an	id in ether.					
ODOR	Odorless or practically or	dorless						
FLAMMABILITY	May be combustible at hi	gh temperature						
AUTO-IGNITION TEMPERATURE	Not available	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	Not available			
EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available			
log P (OCTANOL-WATER)	3.06	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	(133 - 140)°C, (271.4-284)°F*			
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	рН	8 - 10.5 (saturated solution)			
RELATIVE DENSITY (WATER = 1)	Not available	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available			
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	Not available	VISCOSITY	Not available			



The physical data presented above are typical values and should not be construed as a specification. **NOTES** *Resolidifies with second melting point at (190-193)°C, (374-379.4)°F

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established.
CHEMICAL STABILITY	Stable under recommended storage conditions.
INCOMPATIBLE MATERIALS	Strong oxidants.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur.
HAZARDOUS POLYMERIZATION	Will not occur.
POSSIBLITY OF HAZARDOUS REACTION	Not established.
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): 4600 Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available			
SKIN CORROSION/IRRITATION	Based on available data, the classification criteria are not met. Local effects:Irritancy, 5% solution: Rabbit: Skin; Result: Irritant; Severity: Slight.			
SERIOUS EYE DAMAGE/EYE IRRITATION	Causes eye irritation.			
RESPIRATORY SENSITIZATION	Due to lack of data the classification is not possible.			
SKIN SENSITIZATION	Based on available data, the classification criteria are not met. Sensitization; Result: Negative; Species: Guinea pig; Organ: Skin			
GERM CELL MUTAGENICITY	Due to lack of data the classification is not possible. Mutagenicity: Ames test in Salmonella typhimurium without activation; Result: Negative E. coli polA without S9; Result: Negative			
CARCINOGENICITY	OSHA	ERYTHROMYCIN is not listed.		
	NTP	ERYTHROMYCIN is not listed.		
	IARC	ERYTHROMYCIN is not evaluated.		
	California Proposition 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.		
ADDITIONAL CARCINOGENICITY INFORMATION	Based on available data, the classification criteria are not met. Rat: Long-term studies; Test Duration: 2 years; Result: Negative			
REPRODUCTIVE TOXICITY	Due to lack of data the classification is not possible. Epidemiological studies have shown conflicting results concerning an association between therapeutic use of erythromycin during pregnancy and an increased risk of malformations. Rat: 10- 25 mg/kg Reproductivity/Developmental; Subcutaneous administration; Result: No teratogenicity or fetotoxicity Rat: Reproductivity / Developmental, Dose: 0.25% of diet; Result: No teratogenicity or other adverse reproductive effect			



SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Based on available data, the classification criteria are not met.					
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Based on availab	Based on available data, the classification criteria are not met.				
ASPIRATION HAZARDS	Based on availab	Based on available data, the classification criteria are not met.				
SIGNS AND SYMPTOMS OF EXPOSURE	ROUTES OF EXPOSURE: Oral, Dermal, Inhalation, Eye contact EARLY ONSET SYMPTOMS RELATED TO EXPOSURE: Not available DELAYED HEALTH EFFECT FROM EXPOSURE: Not available Symptoms related to the physical, chemical, and toxicological characteristics: Macrolide antibiotics: Nausea. Vomiting. Abdominal pain. Diarrhea. Taste perversion. Yellow eyes o Hearing loss. Ringing in ears. Fever.					
POTENTIAL HEALTH EFFECTS	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation. May cause allergic reaction.				
	Ingestion	May be harmful if swallowed.				
	Skin	May be harmful if absorbed through skin. May cause skin irritation. May cause allergic reaction.				
	Eyes	Causes eye irritation.				

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	EC50: 48 Hr: Crustacea: Penaeus vannamei: (mg/L): 0.0227 LC50: 96 Hr: Fish: Morone saxatilis: (mg/L): 266 - 457 EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available				
PERSISTENCE AND DEGRADABILITY	Not available				
BIOACCUMULATIVE POTENTIAL	LogPow: 3.06				
MOBILITY IN SOIL	Water solubility: 1.440 mg/L (25°C) Henry's Law Constant: 5.42E-29 atm-m³/mole (25°C)				
OTHER ADVERSE EFFECTS	Not available				
	This product is not intended to be released into the environment.				

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN NUMBER	3077
CLASS	9
PACKING GROUP	III
AUSTRALIA	
HAZCHEM	2Z



<u>EU</u>

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not listed

ENVIRONMENTAL HAZARDS SPECIAL SHIPPING INFORMATION Not available Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	R Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
ERYTHROMYCIN 114-07-8	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
ERYTHROMYCIN 114-07-8	N/L	Listed as Schedule 4	N/L	Listed	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
ERYTHROMYCIN 114-07-8	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL Not applicable AGREEMENT

SECTION 16: OTHER INFORMATION

REFERENCES

Available upon request

Medisca[®]

SAFETY DATA SHEET

ABBREVIATIONS AND ACRONYMS	ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS – Chemical Abstract Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; EC50 – Effective Concentration, 50%; EPA – Environmental Protection Agency; GHS – Global Harmonized System; HMIS – Hazardous Materials Information System; HSE – Health and Safety Executive; HSIS – Hazardous Substances Information System; IARC – International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN – Ready Biodegradability Model; ISS – Instituto Superiore Sanità; LC50 – Lethal Concentration, 50%; LD50 – Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH – National Institute for Occupational Safety and Health; NTP – National Toxicology Program; OSHA PEL – Occupational Safety & Health Administration Permissible Exposure Limits; QSAR – Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA – Superfund Amendments and Reauthorization Act; STEL – Short Term Exposure Limit; TLV – Threshold Limit Value; TWA – Time Weighted Average; WHMIS – Workplace Hazardous Materials Information System
LAST REVISION	02/2023
SUPERSEDES	05/2021 For a list of changes to the SDS since the last version, please communicate with MEDISCA at
	www.medisca.com
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