

LINCOMYCIN INJECTION USP, 300MG/ML

1. IDENTIFICATION			Page Strange		
Material Identification	:	Lincomycin Injection USP, 3	300mg/ml		
Active ingredient	1	Carbonyl]amino]-1-thio-D-e hydrochloride monohydrate	rythro-α-D-galacto-oct	opy	yranoside(lincomycin)
Molecular Formula	:	$C_{18}H_{34}N_2O6S.\;HCL.\;H_2O$	Molecular Weight	100	461.01 g/mol
CAS Number	•••	859-18-7			
Product Use	••	Antibiotic			
Manufactured by	14	Micro Labs Limited Plot no. 113-116, KIADB, Bommasandra Industrial Area, Bommasandra-Jigani Link Road, Anekal taluk, Bangalore-560099, Karnataka, India	Manufactured for		Armas Pharmaceuticals Inc. 303 West Main Street Suite 300 Freehold, NJ 07728
Emergency Contact		+91-80-27839033			

2. HAZARDS IDENTIFICATION

Label Elements			
Signal	:	Warning	
Physical hazards	:		
Classification of the substance	:	Not classified	
Hazard statements	:	Non-hazardous in accordance with international standards for workplace safety. Can cause skin and eye irritation. Ingestion may produce abdominal pain and vomiting.	
Precautionary statements		 P260: Do not breathe dust/fume/gas/mist/vapors/spray P264: Wash face, hands and any exposed skin thoroughly after handling. P301+312: IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell. P314: Get medical attention/advice if you feel unwell P330: Rinse mouth. P501: Dispose of contents/container in accordance with all local and national regulations 	
Hazard(s) not otherwise classified (HNOC)	:	None known	



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3. COMPOSITION/INFORMATION ON INGREDIENTS						
Chemical Name	CAS #	EINECS #	% w/w	Label Elements EU classification (67/548/EEC) GHS & EU classification (1272/2008 EC) Risk phrases/Hazard statements		
Active Pharmaceutical Ingr	edient		1			
		-		Acute skin, eye, respiratory toxicity Category 1, 1A, 1B and 2 Risk Phrase Codes: R43 Hazard Symbols: Xi		
Lincomycin Hydrochloride Carbonyl]amino]-1-thio-D- erythro-α-D-galacto- octopyranoside(lincomycin) hydrochloride monohydrate	859-18-7	212-726-7	Proprietary	GHS & EU 1272/2008: Classification: Skin corrosion/irritation: Category 2, skin sensitization: Category 1, 1A and 1B, serious eye damage/eye irritation: Category 2A, respiratory sensitization: Category 1, 1A and 1B, specific target organ toxicity, single exposure, respiratory tract irritation: Category 3 Hazard codes: H315, H317, H319, H334, H335 Hazard symbol/Pictogram: GHS07, GHS08		
Excipient				3,		
				EU 67/548/EEC: Classification: Acute oral toxicity Category 4 Risk Phrase Codes: R20, R22 Hazard Symbols: Xn		
Benzyl Alcohol	100-51-6	202-859-9	Proprietary	GHS & EU 1272/2008: Classification: Acute toxicity Category 4 oral, Acute toxicity Category 4 inhalation, Eye irritation Category 2, Hazard codes: H302, H332, H319 Hazard symbol/Pictogram: GHS07		

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

4. FIRST AID	ME	ASURES	
Eyes Contact	:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.	



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Skin Contact	0.000	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention. Delayed effects may occur. For information on potential delayed effects, see Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.			
Ingestion	ž.	Never gi water. Do attention	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.		
Inhalation		Remove	to fre	esh air and keep patient at rest. Seek medical attention immediately.	
5. FIRE FIGHT	FIN	G MEASU	RES		
Extinguishing I	me	dia 🔡	Use	carbon dioxide, dry chemical and water spray.	
General Inform	nati	on			
As in any fire, or equivalent), gas may be ge	we an ene	ar a self-c d full prote rated.	onta ective	ned breathing apparatus in pressure-demand, MSHA/NIOSH approved e gear. During a fire, carbon oxides, Nitrogen oxides, Hydrogen chloride	
6. ACCIDENT	AL	RELEASE	E M	EASURES	
Personal preca protective equi emergency pro	auti ipm oce	ions, nent and dures	1	Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.	
Environmental			51	Place waste in an appropriately labelled, sealed container for disposal.	
precautions			18	Care should be taken to avoid environmental release.	
Methods for cl	ear	ning up		Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.	
7. HANDLING AND STORAGE					
Precautions fo handling	r sa	afe	19.10	Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment. Wash thoroughly after handling. 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, including any incompatibilities					
Storage condit	ion	S	:	Store at controlled room temperature of 20°C-25°C (68°F-77°F).	
Specific end us	se(s)	1	Pharmaceutical drug product for patients	
8. EXPOSURE CONTROLS / PERSONAL PROTECTION					
Engineering C	ont	rols	:	Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the occupational exposure limits, 100µg/m ³ .	
Personal Prote Equipment	Personal Protective Equipment Contact your safety and health professional or safety equipment Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct prote clothing/equipment based on an assessment of the workplace specific operational processes.		Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and specific operational processes.		

MICRO LABS

MATERIAL SAFETY DATA SHEET

LINCOMYCIN INJECTION USP, 300MG/ML

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.		
Hands	:	Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.		
Eye Protection		Wear safety glasses or goggles if eye contact is possible.		
Skin protection	4	Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.		
9. PHYSICAL AND CHEMI	CAL	PROPERTIES		
Physical State	:	Injection		
Color	:	Clear, colorless to slightly yellowish solution. Practically free from visible particles.		
Appearance	10	Lincomycin Injection USP, 300mg/ml: Clear, colorless solution, free from visible particles.		
Molecular Formula	1	C ₁₈ H ₃₄ N ₂ O6S. HCL. H ₂ O		
Molecular Weight	:	461.01 g/mol		
10. STABILITY AND REAC	TIVI	TY		
Reactivity	:	Stable under recommended storage conditions.		
Conditions to Avoid		No data available		
Incompatible Materials	:	No data available		
11. TOXICOLOGICAL INFORMATION				
Acute Toxicity		Lincomycin Hydrochloride Rat Oral LD 50 >4000 mg/kg Rat Para-periosteal LD 50 342 mg/kg Mouse Intravenous LD 50 214 mg/kg Rat Subcutaneous LD 50 9778 mg/kg		
		Benzyl Alcohol Rat Oral LD 50 1230 mg/kg Rat Para-periosteal LD 50 53 mg/kg Rat Inhalation LC 50 46 mg/m ³		
Skin Irritation/ Sensitization	**	Benzyl Alcohol Rabbit: Moderate Guinea Pig: Moderate		
Eye irritation	3	Rabbit: Severe		
Repeated dose toxicity	•	Lincomycin Hydrochloride 30 Day(s) Rat Oral 300 mg/kg/day NOAEL No effects at maximum dose 30 Day(s) Rat Subcutaneous 60 mg/kg/day NOAEL None identified 3 Month(s) Rat Oral 300 mg/kg/day NOAEL None identified 3 Month(s) Dog Oral 400 mg/kg/day LOAEL None identified 6 Month(s) Dog Oral 100 mg/kg/day NOAEL Immune system		



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Reproduction and Developmental toxicity		Lincomycin Hydrochloride 2 Generation Reproductive Toxicity Rat Oral 100 mg/kg LOAEL Fetotoxicity Prenatal & Postnatal Development Rat Oral 100 mg/kg NOEL Not Teratogenic Fertility and Embryonic Development Rat Subcutaneous 75 mg/kg/day NOAEL No effects at maximum dose Embryo / Fetal Development Rat Subcutaneous 300 mg/kg/day NOAEL Not Teratogenic Peri-/Postnatal Development Rat Subcutaneous 30 mg/kg/day NOAEL No effects at maximum dose	
Genetic toxicity :		Lincomycin Hydrochloride Bacterial Mutagenicity (Ames) <i>Salmonella</i> Negative Mammalian Cell Mutagenicity Mouse Lymphoma Negative <i>In Vivo</i> Micronucleus Rat Negative Direct DNA Interaction Human Lymphocytes Negative	
Carcinogenicity	:	None of the components of this formulation are listed as a carcinogen by IARC. NTP or OSHA.	
IARC:	5	Not carcinogenic	
NTP:	:	Not carcinogenic	
12. ECOLOGICAL INFORMATION			
General Notes		Environmental properties have not been thoroughly investigated. Releases to the environment should be avoided.	
Aquatic toxicity:		Lincomycin Hydrochloride Lepomis macrochirus (Bluegill Sunfish) ASTM LC50 96 Hours >980 mg/L Daphnia magna (Water Flea) ASTM EC50 48 Hours >900 mg/L Anabaena flos-aquae(Cyanobacteria) OECD EC50 72 Hours 0.03 mg/L Salmo gairdneri (Trout) ASTM LC50 96 Hours >980 mg/L A greater than symbol (>) indicates that aquatic toxicity was not observed at the maximum dose tested.	
Persistence and degradability		No data available	
Bioaccumulative potential	:	No data available	
Mobility in soil		No data available	
Results of PBT and vPvB	1	data not available	
13. DISPOSAL CONSIDERATIONS			
Waste Treatment Methods		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.	



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14. TRANSPORTATION INFORMATION					
Environmental hazards	1	No data available			
Special precautions for user	12	No data available			
Transport hazard class(es)		No data available			
Packing group	(1)	No data available			
IATA UN number	:	No data available			
Environmental hazards	:	No data available			
Special precautions for user	1	No data available			

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

15. REGULATORY / STAT	UTC	DRY INFORMATION
Seveso regulation (Directive 96/82/EC)		Not Available
Candidate list (art. 59- REACH):		Not Available
Ozone depletion substance (2000/2037/EC)	1	Not Available
Import/export dangerous chemical (2008/689/EC)		Not Available

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3 R43 - May cause sensitization by skin contact.

R20/22 - Harmful by inhalation and if swallowed.

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