

**MATERIAL SAFETY DATA SHEET****ERYTHROMYCIN BP / USP / EP****Section 1: Chemical Product And Company Identification****Product:** ERYTHROMYCIN BP / USP/ EP**Company Identification:** Anuh Pharma Ltd.

<b>Head Office:</b>	<b>Factory:</b>
M/S Anuh Pharma Ltd A-3 Shivsagar Estate, North wing, Dr. Annie Besant Road, Worli Mumbai 400018 State: Maharashtra Country: - India	M/S Anuh Pharma Ltd E-17/3 & E-17/4 M.I.D.C. Tarapur Boisar, Dist: Thane- 401506 State: Maharashtra Country: - India
Tel. No: ( STD. Code: 022- ) 66227575 66227600/ 66227500 (Fax) E-mail: anuh@skageexports.com	Tel. No: ( STD. Code: 02525- ) 272174, 270281(Tele-fax)
Timing: 10.30 am to 5.00pm (Indian Standard Time)	Timing: 10.30 am to 5.00pm (Indian Standard Time)

**MATERIAL SAFETY DATA SHEET****ERYTHROMYCIN BP / USP / EP****Section 2: Composition , Information On Ingredients:****Chemical Name : Erythromycin****CAS : 114-07-8****Hazardous Symbol : Xn****Risk Phrases : R63, R42/43***R63: Possible risk of harm to unborn child**R42/43: May cause sensitization by inhalation and skin contact.***Synonyms: Erythromycin,****Nomenclature:**

Erythromycin is a mixture of macrolide antibiotics. Consisting of macrolide antibiotics consisting largely Erythromycin A, (2R,3S,4S,5R,6R,8R,10R,11R,12S,13R)-5-(3-amino-3,4,6-trideoxy-N,N-dimethyl-β-D-xylo-hexopyranosyloxy)-3-(2,6dideoxy-3C.3-O-dimethyl-α-L-ribo-hexopyranosyloxy)-13-ethyl-6,11,12 trihydroxy-2,4,6,8,10,12-hexamethyl-9-oxotridecan-13 olide.

**Molecular Formula : dC37H67NO13****Molecular Weight : 734****Therapeutic Category: Macrolide Antibiotic****PHYSICAL /CHEMICAL CHARACTERISTIC****Physical State: Solid****Appearance:** Colourless or slightly yellow crystals or white or slightly yellow powder, slightly hygroscopic..**Solubility:** Slightly soluble in water(solubility decreases with rise in temperature rises) , freely soluble in alcohol, soluble in methanol .It dissolves in dilute hydrochloric acid.**Action & use: Antibacterial**



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#### Section 3: Potential Health Effect

<b>Eyes:</b>	May cause irritation.
<b>Skin:</b>	May cause irritation
<b>Ingestion:</b>	Gastrointestinal disorders with large dosage but no serious side effects.
<b>Inhalation:</b>	Allergic reaction may occur.
<b>Chronic:</b>	Non chronic

#### Section 4: First Aid Measures

<b>Eyes:</b>	Immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting the upper and lower lids. Get medical aid..
<b>Skin:</b>	Flush skin with plenty of soap and water Immediately flush eyes with plenty of water. Get medical aid..
<b>Ingestion:</b>	Flush mouth with water and get medical attention.
<b>Inhalation:</b>	Remove from exposure to fresh air immediately. If not breathing gives artificial respiration. Get medical aid immediately.

#### Section 5: Fire Fighting Measures

<b>Information:</b>	In case of fire material will melt.
<b>Extinguishing media:</b>	Water spray, dry chemical, CO2 or foam as appropriate for surrounding fire and material.
<b>Special fire and fighting procedure:</b>	Use self contained breathing apparatus and protective clothing.



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### Section 6: Accidental Release Measures

<b>General information:</b>	Use proper protective equipments as in information section 8.
<b>Caution:</b>	May cause Eyes/ skin/ respiratory irritation.
<b>Spills:</b>	Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

### Section 7: Handling And Storage

<b>Handling:</b>	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimise dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid inhalation and ingestion.
<b>Storage :</b>	Store in well closed container, protected from light at a temperature not exceeding 30°C.

### Section 8: Exposure Controls, Personal Protection

<b>Eyes:</b>	Wear appropriate protecting eyeglasses or chemical safety goggles.
<b>Nose &amp; Mouth:</b>	Wear nose masks.
<b>Skin:</b>	Wear protective disposable surgical hand gloves.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure. Normal clothing suitable.

### Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Colourless or slightly yellow crystals or white or slightly yellow powder, slightly hygroscopic..

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<b>Solubility:</b>	Slightly soluble in water(solubility decreases with rise in temperature rises) , freely soluble in alcohol, soluble in methanol .It dissolves in dilute hydrochloric acid.
<b>Basic reaction:</b>	Readily form a salt with acid.
<b>Action &amp; use:</b>	Antibacterial

**Section 10: Stability And Reactivity**

<b>Chemical Stability:</b>	Stable under normal temperature and pressure.
<b>Condition to avoid:</b>	Temperature more than 30°C. open to incident light
<b>In compatibility with other material:</b>	Avoid contamination. Precipitation formed when 250mg of Erythromycin mixed with 500 mg of chloramphenicol or 250mg of oxytetracyclin hydrochloride or tetracycline hydrochloride 500mg in 1 ltr dextrose solution(5%).
<b>Hazardous decomposition Product:</b>	None.
<b>LD50:</b>	4600mg/kg
<b>Carcenogenic:</b>	Non Carcenogenic

**Section 11: Toxicological Information**

<b>CAS :</b>	[114-07-8]
<b>LD50:</b>	4600mg/kg
<b>Carcinogenicity:</b>	Not listed
<b>Epidermiology:</b>	Information not available
<b>Teratogenicity :</b>	Information not available
<b>Reproductive effect:</b>	Information not available
<b>Neuro toxicity:</b>	Information not available



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<b>Mutagenicity:</b>	Information not available
<b>Other study:</b> <b>Ototoxicity:</b>	Partial deafness developed in woman after 4 days therapy 4g daily. Return to normal when dosage reduced to 2g daily for 3 days.
<b>Hepatotoxicity:</b>	May cause Jaundice usually lasted for 1 or 2 weeks and was reversible after antibiotic withdrawn.
<b>Effect on Eyes:</b>	May cause irritation.
<b>Effect on Skin:</b>	May cause irritation
<b>Effect on Ingestion:</b>	Gastrointestinal disorders with large dosage but no serious side effects.
<b>Effect on Inhalation:</b>	Allergic reaction may occur.

#### **Section 12: Ecological Information**

<b>Ecotoxicity:</b>	Information not available
<b>Environmental Fate:</b>	Information not available
<b>Physical / Chemical:</b>	Information not available
<b>Other:</b>	None

#### **Section 13: Disposal Considerations**

Dispose of in a manner consistent with federal, state and local regulations.

#### **Section 14: Transport Information**

Information not available

**MATERIAL SAFETY DATA SHEET****ERYTHROMYCIN BP / USP / EP****LABEL DATA**

**Label required:** Yes  
**Label status:** G  
**Common name:** Erythromycin

**Section 15:Regulatory Information**

**Hazard Symbol:** Xn  
**Risk Phrases:** R63, R42/43  
**Safety phrases:** Not Applicable  
*R63: Possible risk of harm to unborn child*  
*R42/43: May cause sensitization by inhalation and skin contact.*

**Section 16 : Additional Information**

**MSDS Prepared on** :02/08/2008

The above information is believed to be accurate and represents the best information currently available with us. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information and we assume no liability resulting from its use. User should make their own investigations to determine the suitability of the information for their particular purpose. In no way shall the company be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

For ANUH PHARMA LIMITED

**AUTHORISED SIGNATORY**