



SAFETY DATA SHEET

1. SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION

Product Name : Clarithromycin
Use : Active Pharmaceutical Ingredient
Company : Zhejiang Guobang Pharmaceutical Co., Ltd
No.6 Weiwu Road, Hangzhou Gulf Shangyu
Economic and Technological Development Zone,
Zhejiang P.R. China
Telephone : +86-575-82736468
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2. CHEMICAL COMPOSITION AND DATA ON COMPONENTS

CAS NO. : 81103-11-9
Formula : $C_{38}H_{69}NO_{13}$
Molecular Weight : 748

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

S36/37 Wear suitable protective clothing and gloves. Caution –
substance not yet tested completely.

Other hazards

None.

4. FIRST-AID MEASURES

In case of eye and skin contact

Wash off with soap and plenty of water. Consult a physician.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration
Consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.
Consult a physician.

Others

Wash all contaminated clothing before reuse.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Unusual fire and explosion hazards

Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE

MEASURES Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment



Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Safety glasses.

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.



Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white or almost white crystalline powder
pH	8.0-10.0
Melting point	217-220 °C
Solubility	soluble in water and in methylene dichloride; slightly soluble in ethanol, practically insoluble in water.

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Incompatible with strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NO_x).

Hazardous polymerization products

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Skin

May cause skin irritation. May be harmful if absorbed through the skin.

Eyes

May cause eye irritation.

Swallow

Harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Toxicity data:

LD50 (mg/kg): 2700 orally(mice); 669 i.p. (rats); > 5000 s.c.(mice)

12. ECOLOGICAL INFORMATION

Do not allow product enter drinking water supplies, waste water or soil.

13. DISPOSAL

CONSIDERATIONS Product



Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Zhejiang Guobang Pharmaceutical Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.