

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Chemical name: γ -(2,3-epoxypropoxy)propyltrimethoxysilane, 98%

Trade name: NQ-56

Company identification: Shanghai Xinda Chemical Industry Co., Ltd.

Address: B1318, Greenland Building, 58# East Xinjian Rd, Minhang District, Shanghai 201199, China

Tel: 86-021-54177116; 54302881

Fax: 86-021-54177116-806

2. COMPOSITION, INFORMATION ON INGREDIENTS:

Cas No.: 2530-83-8

Chemical name: γ -(2,3-epoxypropoxy)propyltrimethoxysilane, 98%

EINECS#: 219-784-2

3. HAZARDS IDENTIFICATION:

Danger! Harmful if swallowed. May be harmful in contact with skin. Cause severe skin burns and eye damage.

Potential Health Effects:

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: Harmful if swallowed.

Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

Chronic: N/A

4. FIRST AID MEASURES:

Eye: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting. Allow the victim to rinse his mouth and then to drink 2-4 cupfuls of water, and seek medical advice.

Inhalation: Remove from exposure to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

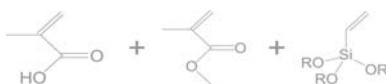
5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Dry chemical, foam, carbon dioxide.

Extinguishing media not to be used: Water (It may scatter and spread fire.)

Specific hazards: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Specific methods: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method



according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters: When extinguishing fire, wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. To be disposed of in compliance with existing regulations.

7. HANDLING AND STORAGE:

Handling: Need be performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use ventilation, local exhaust if vapor or aerosol will be generated.

Storage: Keep containers tightly closed in a cool, dry, well-ventilated place.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment:

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: colorless clear liquid

Odor: N/A

PH: 6.0

Boiling Point: 120°C

Flash Point: 122°C

Solubility: reacts with water

Specific Gravity/Density: 1.07 g/cm³

Molecular Formula: C₉H₂₀O₅Si

Molecular Weight: 236.34

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: moisture, water, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents - moist air or water, strong acid.



Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, methanol.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

No data available.

12. ECOLOGICAL INFORMATION:

No data available.

13. DISPOSAL CONSIDERATIONS:

Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

Unclean packaging: Completely discharge containers (no tear drops, no powder rest, scraped carefully).

Containers may be recycled or re-used. Observe local/state/federal regulations.

14. TRANSPORT INFORMATION:

No data available.

15. REGULATORY INFORMATION:

No data available.

16. ADDITIONAL INFORMATION:

Date Updated: Feb 08, 2012

Version: 2.0

This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.