

SAFETY DATA SHEET

Curing agent GL-1810

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name Curing agent GL-1810

Use of the substance/mixture Adhesive raw material, epoxy accelerator

Supplier Guangzhou Green New Materials Co., Ltd.
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SECTION 2: Composition/Information on ingredients

CAS Number/Name Trade secret

Chemical name Mercaptan/Amine blend

Exposure Limits Percentage

Hazard substance This product does not contain any hazardous chemicals

SECTION 3: Hazards identification

Potential Health Effects

Emergency overview

Harmful if inhaled.
Harmful if swallowed.
May cause delayed lung injury.
Causes irritation to respiratory tract if inhaled.
Causes skin and eye irritation.
May cause skin sensitization.

Environmental Effect

None known.

Physical and

Chemical Hazards

Considered slightly toxic by inhalation. Can cause irritation of respiratory tract and nausea. Overexposure may cause delayed lung injury and chemical pneumonia. Causes eye and skin irritation.

Other Special Hazards

None known.

SECTION 4 : First aid measures

Description of first aid measures

Eyes

IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

Skin

IMMEDIATELY flush with water for at least 15 minutes while removing contaminated clothing and shoes. IF IRRITATION

Inhalation

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. IF THERE ARE ADVERSE REACTIONS, CONTACT A PHYSICIAN IMMEDIATELY.

Ingestion

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water or milk. DO NOT induce vomiting. Keep airway clear. GET MEDICAL ATTENTION IMMEDIATELY.

Notes to physician

None known

SECTION 5 : Firefighting measures

Flash point

> 200 °F (Pensky-Martens Closed Cup)

Autoignition temperature

Not determined

Extinguishing media

Water Fog, Carbon Dioxide, Foam, Dry Chemical

Fire fighting procedures:

Cool fire-exposed containers with water. Use self-contained breathing apparatus in confined areas.

Hazardous combustion products

Carbon dioxide, carbon monoxide, hydrogen sulfide, sulfur dioxide, sulfur trioxide

SECTION 6 : Accidental release measures

Personal precautions:

Follow protective measures provided under Personal Protection in Section 8.

Environmental precautions

Contain material.

Methods for cleaning up

Add dry material to absorb spill (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and place in containers for recovery or disposal. Flush area with water to remove residues.

SECTION 7 : Handling and storage

Handling Do not get in eyes, on skin or clothing.

Special mixing and handling instructions None known.

Storage Store containers in a cool, dry, ventilated, fire resistant area away from sources of ignition and incompatible materials. Do not store near resinous materials with epoxy functionality. Keep container tightly closed and properly labeled.

SECTION 8 : Exposure controls

Engineering measures Handle product in a well ventilated area. If product is handled in an open system, the use of process enclosures, local exhaust ventilation, and/or other engineering controls should be considered to control airborne levels to below recommended exposure limits, or below acceptable levels where there are no limits.

Personal protective equipment

Respiratory Use a NIOSH approved full-face respirator with organic vapor acid gas cartridge when handling this material if warranted. A respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant use of a respirator.

Eye/face protection Wear chemical safety goggles (ANSI Z87.1). Wear chemical resistant gloves such as rubber, neoprene or vinyl, and work clothing with full length sleeves.

Skin Wear chemical resistant gloves such as rubber, neoprene or vinyl, and work clothing with full length sleeves.

Other Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1).

SECTION 9 : Physical and chemical properties

Appearance and odor Clear white to yellow liquid with mercaptan-like odor

Specific gravity(Water=1) 1.15

Solubility in water Negligible (< 0.1%)

Percent Volatiles (by wt.) 0 at 70°F

SECTION 10 : Stability and reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions When mixed with oxidizers and/or acids

Hazardous decomposition Carbon monoxide, carbon dioxide, hydrogen sulfide, sulfur dioxide, sulfur trioxide

SECTION 11 : Toxicological information

Information on toxicological effects

Oral LD 50(rat) 2.6g/kg

Eye Irritation (rabbit) 16.8/110

Skin Irritation (rabbit) 4.8/8

Skin Sensitization (guinea pig) Negative

Dermal LD50 (rabbit) >10.2 g/kg

SECTION 12 :Ecological information

Environmental effect EC50 > 100 mg/l (OECD 201/DIN 38412, part 9)

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Mobility This product is slightly soluble in water

Bioaccumulation No data available

Environmental An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 :Disposal considerations

Dispose of all waste and contaminated equipment in accordance with local health and environmental regulations.

SECTION 14 :Transport information

DOT Shipping Name Non regulated

DOT UN Number UN 3334

DOT Hazard Class Not applicable

DOT Packing Group Non regulated

AIR TRANSPORTATION (AITA) Aviation Regulated Liquid, N.O.S. (Mercaptan-terminated polymer), 9

SECTION 15 :Regulatory information

This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.

SECTION 16 :Other information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.