# SAFETY DATA SHEET

**Product Code:** ChangFu® SH32
**Product Name:** 3-Mercaptopropyltrimethoxysilane
Date of issue: 2025-06-20
Version: 2.1

## SECTION 1: Identification of the substance and of the company

1.1 GHS product identifier
Product name: 3-Mercaptopropyltrimethoxysilane
Product number: ChangFu® SH32
Use of the substance: Laboratory chemicals, synthesis of chemical compounds

1.2 Details of the supplier
Company: Hubei ChangFu Chemical Co., Ltd.
Address: No. 2 Dongfeng Avenue, Wuhan Economic & Technology Development Zone, Hubei, China
Tel: +86-27-8439 6550

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Acute toxicity - Oral [Category 4]
Eye irritation [Category 2B]
Hazardous to the aquatic environment, long-term (Chronic) [Category 2]

2.2 GHS label elements
Pictogram(s):

Signal word: Warning
Hazard statement(s):
H302 - Harmful if swallowed.
H320 - Causes eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statement(s):
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P270 - Do not eat, drink or smoke when using this product.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P301 + P312 + P330 - IF SWALLOWED: Call a poison center/doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reused.
P501 - Dispose of contents/container to licensed waste disposal facility.

## SECTION 3: Composition/information on ingredients

3.1 Substance

| Name | CAS No. | Concentration Range (%) |
|---|---|---|
| 3-Mercaptopropyltrimethoxysilane | 4420-74-0 | 97~100 |

## SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Remove victims to fresh air and keep at rest in a comfortable position for breathing. Get medical advice/attention.

In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

If swallowed

Rinse mouth with water. Do not induce vomiting. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

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## SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Specific hazards arising from the substance

No data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapors. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment

must be avoided.

6.3 Methods and materials for containment and cleaning up
Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**SECTION 7: Handling and storage**

7.1 Precautions for safe handling
Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities
Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

**SECTION 8: Exposure controls/personal protection**

8.1 Control parameters
No data available

8.2 Appropriate engineering controls
Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)
Eye/face protection
Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection
Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection
If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-faced respirator.

Thermal hazards
No data available.

**SECTION 9: Physical and chemical properties**

Physical state: Clear liquid
Color: colorless to light yellow
Odor: no data available
Melting point/ freezing point: no data available

Boiling point: no data available
Flammability: no data available
Flash point: no data available
pH: no data available
Kinematic viscosity: no data available
Solubility: no data available
Vapor pressure: no data available
Density and/or relative density: no data available

**SECTION 10: Stability and reactivity**

10.1 Reactivity
No data available.

10.2 Chemical stability
Stable in strictly-sealed containers.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Heat, sparks and open flame.

10.5 Incompatible materials
No data available.

10.6 Hazardous decomposition products
No data available.

**SECTION 11: Toxicological information**

Acute toxicity
Oral: no data available
Inhalation: no data available
Dermal: no data available

Skin corrosion/irritation: no data available
Serious eye damage/irritation: no data available
Respiratory or skin sensitization: no data available

**SECTION 12: Ecological information**

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

**SECTION 13: Disposal considerations**

13.1 Disposal methods
Product
The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge the sewer systems.

Contaminated packaging
Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

**SECTION 14: Transport information**

14.1 UN number
UN3082

14.2 UN proper shipping name
Environmentally hazardous substance, liquid, n.o.s.

14.3 Transport hazard class(es)
9

14.4 Packing group, if applicable
III

**15. Regulatory information**
No data available.

**16. Other information**
Disclaimer
This SDS only provides information on the safety of the use of the product to professionally trained users. The information in this SDS is based on our current knowledge and is used as a guide only and does not represent any guarantee as to the performance of the product. Users of the SDS must make their own judgment on the applicability of the SDS under special conditions of use. ChangFu Chemical shall not be liable for any damage caused by any handling or contact with the above products.