

## SAFETY DATA SHEET

**Product Code:** ChangFu® CN31

**Product Name:** 3-Cyanopropyltrichlorosilane

Date of issue: 2024-01-08

Version: 2.0



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

#### 1.1 GHS product identifier

Product name: 3-Cyanopropyltrichlorosilane

Product number: ChangFu® CN31

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

Skin corrosion/Irritation [Category 1]

Serious eye damage/eye irritation [Category 1]

#### 2.2 GHS label elements

Pictogram(s):



Signal word: Danger

Hazard statement(s):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary statement(s):

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P235 Keep in a cool place.

P501 Dispose of contents/container to licensed waste disposal facility.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substance

## SAFETY DATA SHEET

Name	CAS No.	Concentration Range (%)
3-Cyanopropyltrichlorosilane	1071-27-8	96~100

### **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 victim to fresh air and keep at rest in a position comfortable 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

### **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 vapours. 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.

#### 6.3 Methods and materials for containment and cleaning up

## SAFETY DATA SHEET

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 appropriate government standards.

##### Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Respiratory protection

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

##### Thermal hazards

No data available

### **SECTION 9: Physical and chemical properties**

Physical state: Clear liquid

Colour: colorless or light yellow

Odour: no data available

Melting point/ freezing point: no data available

Boiling point: no data available

Flammability: no data available

Flash point: no data available

## SAFETY DATA SHEET

Solubility: no data available

Vapour pressure: no data available

Density and/or relative density: no data available

Relative vapour density: no data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Reacts violently with water.

#### 10.4 Conditions to avoid

Heat, sparks and open flame. Exposure to moisture.

#### 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



## SAFETY DATA SHEET

### 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 to 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

2987

### 14.2 UN proper shipping name

CHLOROSILANES, CORROSIVE, N.O.S.

### 14.3 Transport hazard class(es)

8

### 14.4 Packing group, if applicable

II

## **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.

