

# SAFETY DATA SHEET



Regulation (EC) No 1907/2006 (REACH) &  
COMMISSION REGULATION (EU) 2015/830

Version 2.02

Product name Phenyltrichlorosilane

Revision date 01-June-2020

## Section 1 - Identification of the material and supplier

### 1.1 Product identifier

Product name Phenyltrichlorosilane  
Product Number SICOSIL® SICO-CP03  
CAS No. 98-13-5

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: industrial use.

Uses advised against: Not for food, drug, pesticide or biocidal product use

### 1.3 Details of the supplier of the safety data sheet

Manufacturer: Sico Performance Material (Shandong) Co., Ltd  
Address: Jining Chemical Industrial Park, Jinxiang, Shandong, China  
Telephone: +86 537 801775  
Fax: +86 537 8017875  
E-Mail: info@silanechem.com

### 1.4 Emergency telephone number

Emergency response service: +86 537 4555878

## Section 2 - Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Inhalation (Category 1)

Acute toxicity, Dermal (Category 4)

Skin corrosion (Category 1A)

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word :

Danger

### Hazard statement(s)

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

### Precautionary statement(s)

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|                    |   |
|--------------------|---|
| P260               | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.   |
| P280               | Wear protective gloves/ eye protection/ face protection.  |
| 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 or doctor/ physician. |
| 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 + P233        | Store in a well-ventilated place. Keep container tightly closed.  |

## 2.3 Other hazards - none

## Section 3 - Composition/information on ingredients

### 3.1 Substances

|                  |  |
|------------------|--|
| Synonyms:        | Trichloro(phenyl)silane                          |
| Formula          | C <sub>6</sub> H <sub>5</sub> Cl <sub>3</sub> Si |
| Molecular Weight | 211.55 g/mol                                     |

| Component             | Concentration |
|-----------------------|---------------|
| Phenyltrichlorosilane |               |
| CAS-No. 98-13-5       | -             |
| EC-No. 202-640-8      | -             |

### 3.2 Mixtures

Not Relevant

## Section 4 -First-aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

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

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician

#### In case of eye contact

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

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## If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Dry powder.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas, silicon oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

No data available

## Section 6 - Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of Electrostatic charge.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Moisture sensitive.

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## Section 8 - Exposure Controls / Personal Protection

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## 8.1 Control parameters

**Components with workplace control parameters**

## 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

### Personal protective equipment

#### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

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.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be Selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face Respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9 - Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                                |
|---|--------------------------------|
| Appearance                              | Colourless liquid              |
| Odour                                   | no data available              |
| Odour Threshold                         | no data available              |
| pH                                      | no data available              |
| Melting point/freezing point            | Melting point/range: -39,99 °C |
| Initial boiling point and boiling range | 201 °C - lit.                  |
| Flash point                             | no data available              |
| Evaporation rate                        | no data available              |

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|  |                                  |
|--|----------------------------------|
| Flammability (solid, gas)                    | no data available                |
| Upper/lower flammability or explosive limits | no data available                |
| Vapour pressure                              | 0,44 hPa at 20 °C                |
| Vapour density                               | 7,3 - (Air = 1.0)                |
| Relative density                             | 1.321 g/cm <sup>3</sup> at 25 °C |
| Water solubility                             | no data available                |
| Partition coefficient: noctanol/ water       | no data available                |
| Auto-ignition temperature                    | 544 °C at 1.013,0 hPa            |
| Decomposition temperature                    | no data available                |
| Viscosity                                    | no data available                |
| Explosive properties                         | no data available                |
| Oxidizing properties                         | no data available                |

## 9.2 Other safety information

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, flames and sparks. Exposure to moisture

### 10.5 Incompatible materials

Strong acids, Strong oxidizing agents, Water, Strong Bases,

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 2.390 mg/kg

LC50 Inhalation - Mouse - 4 h - 0,23 mg/l

LD50 Dermal - Rabbit - 1.173 mg/kg

LD50 Intravenous - Mouse - 100 mg/kg

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

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Eyes - rabbit - Severe eye irritation

## Respiratory or skin sensitization

no data available

## Germ cell mutagenicity

Mouse

lymphocyte

Result: negative

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Reproductive toxicity

no data available

## Specific target organ toxicity - single exposure

no data available

## Specific target orgtoxicity - repeated exposure

no data available

## Aspiration hazard

no data available

## Additional Information

RTECS: VV6650000

## Section 12 - Ecological Information

### 12.1 Toxicity

|   |  |
|---|--|
| Toxicity to fish                                    | static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)                 |
| Toxicity to daphnia and other aquatic invertebrates | Immobilization EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)                       |
| Toxicity to algae                                   | Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201) |

### 12.2 Persistence and degradability

|                  |   |
|------------------|---|
| Biodegradability | Result: 0 % - Not biodegradable (OECD Test Guideline 310) |
|------------------|---|

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

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no data available

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

no data available

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## Section 14 - Transport Information

### 14.1 UN number

ADR/RID: 1804

IMDG:1804

IATA: 1804

### 14.2 UN proper shipping name

ADR/RID: PHENYLTRICHLOROSILANE

IMDG: PHENYLTRICHLOROSILANE

IATA: Phenyltrichlorosilane

Passenger Aircraft: Not permitted for transport

### 14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

no data available

## Section 15 - Regulatory Information

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

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

### 15.2 Chemical Safety Assessment

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no data available

## Section 16 - Other Information

### Further information:

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

- End of Safety Data Sheet

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