1. IDENTIFICATION

Product name: Phenyltrichlorosilane
Product code: P0240
Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

Company:
TCI America
9211 N. Harborgate Street
Portland, OR 97203 U.S.A.
Telephone:
+1-800-423-8616 / +1-503-283-1681
Fax:
+1-888-520-1075 / +1-503-283-1987
e-mail: sales-US@TCIchemicals.com
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Emergency telephone number:
Chemical Emergencies:
TCI America (8:00am - 5:00pm) PST
+1-503-286-7624
Transportation Emergencies:
Chemtrec 24-Hour
+1-800-424-9300 (U.S.A.)
+1-703-527-3887 (International)
Responsible department:
TCI America
Environmental Health Safety and Security
+1- 503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:
Acute Toxicity - Dermal [Category 4]
Acute Toxicity - Inhalation [Category 2]
Eye Damage/Irritation [Category 1]
Flammable Liquids [Category 4]
Corrosive to Metals [Category 1]
Skin Corrosion/Irritation [Category 1B]

WHMIS 2015:
Signal word:
Danger!

Hazard Statement(s):
Combustible liquid
May be corrosive to metals
Harmful in contact with skin
Fatal if inhaled
Causes severe skin burns and eye damage

Pictogram(s) or Symbol(s):

Precautionary Statement(s):

[Prevention]
Keep away from flames and hot surfaces. – No smoking. Keep only in original container. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection.

[Response]
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. In case of fire: Use dry chemical, dry sand or foam to extinguish. Absorb spillage to prevent material damage.

[Storage]
Store in corrosive resistant bottle or metal container with a resistant inner liner. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

[Disposal]
Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU-91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]
May be harmful if swallowed. Lachrymator
3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance
Components: Phenyltrichlorosilane
Percent: >98.0%(GC)
CAS RN: 98-13-5
Molecular Weight: 211.54
Chemical Formula: C₆H₅Cl₃Si
Synonyms: Trichlorophenylsilane

4. FIRST-AID MEASURES

Description of first aid measures
Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms/effects:
Delayed: No data available

Indication of any immediate medical attention: Not available.
Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, carbon dioxide.
Unsuitable extinguishing media: Water
Specific hazards arising from the chemical:
Hazardous combustion products: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
These products include: Carbon oxides Halogenated compounds Silicates
Other specific hazards: WARNING: Highly toxic HCL gas is produced during combustion.
Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:
Prevent product from entering drains.
Methods and materials for containment and cleaning up:
Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary hazards:
Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling:
Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
May develop pressure. Open carefully. Use corrosive resistant equipment.

Conditions for safe storage, including any incompatibilities:
Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive
Packaging material: Comply with laws. Keep only in original container.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment
Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection: Impervious gloves.
Eye protection: Safety goggles. A face-shield, if the situation requires.
Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid
Form: Clear
Colour: Colorless - Almost colorless
Odour: No data available
Odor threshold: No data available
Odour threshold: No data available
Melting point/freezing point: No data available
Boiling point/range: 201°C (394°F)
Decomposition temperature: No data available
Relative density: 1.32
Kinematic viscosity: No data available
Log Pow: No data available
Flash point: 91°C (196°F)
Flammability (solid, gas): No data available
Flammability or explosive limits: Lower: 1.6%
Autoignition temperature: No data available
Upper: 9.2%
Solubility(ies):
[Water] No data available
[Other solvents] Ether, Benzene, Chloroform

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical stability: Stable under proper conditions.
Possibility of hazardous reactions: Decomposes in contact with water and liberates toxic gases.
Conditions to avoid: Open flame, Moisture
Incompatible materials: Oxidizing agents
Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Hydrogen chloride, Silicon oxides
### 11. TOXICOLOGICAL INFORMATION

**RTECS Number:** VV6650000

**Acute Toxicity:**
- ihl-mus LC50: 330 mg/m²/2H
- skn-rbt LD50: 890 μL/kg

**Skin corrosion/irritation:**
No data available

**Serious eye damage/irritation:**
No data available

**Respiratory or skin sensitization:**
No data available

**Germ cell mutagenicity:**
No data available

**Carcinogenicity:**
No data available

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**Reproductive toxicity:**
No data available

**Target organ(s):**
No data available

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**
- Fish: No data available
- Crustacea: No data available
- Algae: No data available

**Persistence / degradability:**
No data available

**Bioaccumulative potential (BCF):**
No data available

**Mobility in soil**
- Log Pow: No data available
- Soil adsorption (Koc): No data available
- Henry's Law (PaM³/mol): No data available

### 13. DISPOSAL CONSIDERATIONS

**Disposal of product:** Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

**Disposal of container:** Dispose of as unused product. Do not re-use empty containers.

**Other considerations:** Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION

DOT (US)
UN number: UN1804
Proper Shipping Name: Phenyltrichlorosilane
Class or Division: 8 Corrosive material
Packing Group: II

IATA
UN number: UN1804
Proper Shipping Name: Phenyltrichlorosilane
Class or Division: 8 Corrosive material
Packing Group: II

IMDG
Proper Shipping Name: Phenyltrichlorosilane
Class or Division: 8 Corrosive material
Packing Group: II

Air Transport: Cargo Aircraft Only.
EmS number: F-A, S-B

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):
This product is on the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations
CERCLA Hazardous substance and Reportable Quantity:
SARA 313: Not Listed
SARA 302: Listed

State Regulations
State Right-to-Know
Massachusetts: Listed
New Jersey: Listed
Pennsylvania: Listed
California Proposition 65: Not Listed

Other Information
NFPA Rating:
Health: 3
Flammability: 2
Instability: 0

HMIS Classification:
Health: 4
Flammability: 2
Physical: 0

International Inventories
Canada: DSL On DSL
EC-No: 202-640-8

16. OTHER INFORMATION

Revision date: 07/06/2018
Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.