# TRICHLOROSILANE

**CAS #** 10025-78-2  
**RTECS #** VV5950000  
**ICSC #** 0591  
**UN #** 1295  
**EC #** 014-001-00-9

## TYPES OF HAZARD/EXPOSURE

<table>
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<th>FIRE</th>
<th>ACUTE HAZARDS/SYMPTOMS</th>
<th>PREVENTION</th>
<th>FIRST AID/FIRE FIGHTING</th>
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<td></td>
<td>Extremely flammable. Gives off irritating or toxic fumes (or gases) in a fire.</td>
<td>NO open flames, NO sparks, and NO smoking.</td>
<td>Water in large amounts, foam, powder, carbon dioxide.</td>
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<tr>
<td>EXPLOSION</td>
<td>Vapour/air mixtures are explosive.</td>
<td>Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.</td>
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## EXPOSURE

**AVOID ALL CONTACT!**

### INHALATION

Ventilation, local exhaust, or breathing protection.  
Fresh air, rest. Half-upright position. Refer for medical attention.

### SKIN

Protective gloves. Protective clothing.  
Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

### EYES

Face shield, or eye protection in combination with breathing protection.  
First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

### INGESTION

Burning sensation. Abdominal pain. Shock or collapse.  
Do not eat, drink, or smoke during work.  
Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

## SPILLAGE DISPOSAL

Evacuate danger area! Consult an expert! Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in dry sand or inert absorbent and remove to safe place (extra personal protection: chemical protection suit including self-contained breathing apparatus).

## STORAGE


## PACKAGING & LABELLING

Do not transport with food and feedstuffs.  
F symbol  
R: 15-17  
S: (2-)24/25-43  
UN Hazard Class: 4.3  
UN Subsidiary Risks: 3 and 8  
UN Packing Group: I
PHYSICAL STATE; APPEARANCE:
COLOURLESS, VOLATILE, FUMING LIQUID, WITH PUNGENT ODOR.

PHYSICAL DANGERS:
The vapour is heavier than air, and may travel along the ground; distant ignition possible.

CHEMICAL DANGERS:
The substance may spontaneously ignite on contact with air. The substance decomposes on heating or burning producing toxic and corrosive fumes including hydrogen chloride. Reacts violently with water to form hydrogen chloride, evolving heat. Reacts violently with strong oxidants, strong acids, bases, amines, alcohols, acetone, ammonia. Attacks many metals in presence of water releasing hydrogen.

OCCUPATIONAL EXPOSURE LIMITS (OELs):
TLV not established.

PHYSICAL PROPERTIES
Boiling point: 31.8°C
Melting point: -126.5°C
Relative density (water = 1): 1.34
Solubility in water: reaction
Vapour pressure, kPa at 20°C: 67

ENVIRONMENTAL DATA
Relative vapour density (air = 1): 4.7
Relative density of the vapour/air-mixture at 20°C (air = 1): 3.3
Flash point: -14°C o.c.
Auto-ignition temperature: 185°C
Explosive limits, vol% in air: 1.2-90.5

NOTES
Reacts violently with fire extinguishing agents such as water. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate spray, by a doctor or a person authorized by him/her, should be considered.

Transport Emergency Card: TEC (R)-43G11
NFPA Code: H3; F4; R2; W

ADDITIONAL INFORMATION

ICSC: 0591
TRICHLOROSILANE

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