1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name On Label: Trimethylchlorosilane  
Product Number: A13651  
Supplier:  
Johnson Matthey Catalog Company Inc.  
30 Bond Street, Ward Hill, Massachusetts, 01835-8099  
Emergency Telephone Number: (978) 521-6300; CHEMTREC: (800) 424-9300  
Alternative Names: Chlorotrimethylsilane; Trimethylsilyl chloride

2. COMPOSITION AND INFORMATION ON COMPONENTS

Name: Trimethylchlorosilane  
Minor Impurities: Not determined  
CAS Number: 75-77-4  
EINECS Number: 2009005  
EEC Number: 

3. HAZARDS IDENTIFICATION

Designation:  
HIGHLY FLAMMABLE ~ TOXIC ~ CORROSIVE  
Risk Phrases  
R11 Highly flammable.  
R14 Reacts violently with water.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R34 Causes burns.  
R40 Possible risk of irreversible effects.

4. FIRST AID MEASURES

Inhalation  
Remove to fresh air. In cases of serious discomfort seek medical attention.

Eye Contact  
Flush with copious amounts of water for at least 15 minutes. Seek urgent medical attention.

Skin Contact  
Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly. In case of skin damage seek urgent medical advice. Show the physician the container details.

Ingestion  
Rinse out mouth and drink lots of water. Seek medical attention and show physician the container
5. FIRE FIGHTING MEASURES

Extinguishing Medium
Use fire fighting measures which suit the environment and take into account other materials which may be involved. In general, water-based extinguishers should not be used for fires involving organic materials. Use carbon dioxide or dry powder.

Protective Equipment
Wear self-contained breathing apparatus and protective clothing.

Hazardous Products of Combustion May Include:
carbon monoxide, carbon dioxide, hydrogen chloride (hydrochloric acid).

6. ACCIDENTAL RELEASE MEASURES

Personal Protection
Keep away from ignition sources. Avoid inhalation of vapour. Wear protective equipment including rubber gloves, eye protection and breathing equipment. Keep unprotected persons away.

Environmental Protection
Take precautions to ensure product does not contaminate the ground or enter the drainage system.

Collection
Absorb in vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.

7. HANDLING AND STORAGE

Handling
Chemicals should be used only by those trained in handling potentially hazardous materials. Rubber gloves, eye protection and protective clothing should be worn. Operations should be carried out in an efficient fume hood or equivalent system.

Storage
Store in tightly sealed containers in a cool place.
Product reacts with water. Take precautions to avoid contact with atmospheric moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory
Volatile product. Avoid inhalation of vapour. Handle in an efficient fume hood or equivalent system.

Eye
Avoid eye contact. Wear safety spectacles, goggles or, for larger quantities, a full face mask.
Hands and Body
Corrosive product. Avoid skin contact. Wear corrosive-resistant gloves and, for larger quantities, full arm and body protection. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless liquid
Physical Constants: b.p. 56-58°
Molecular Formula: C3H9ClSi
Formula Weight: 108.64
Water Solubility:
Density: 0.856
Flash Point: -28°

10. STABILITY AND REACTIVITY

Specific Hazard
Incompatibilities

Decomposition
Hazardous products of decomposition may include:
carbon monoxide, carbon dioxide, hydrogen chloride (hydrochloric acid).

11. TOXICOLOGICAL INFORMATION

RTECS Number: VV2710000
Acute Toxicity
LD50: LDLo IPR-MUS 750mg/kg

Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Possible risk of irreversible effects.

Special Note
Causes burns. Material is extremely destructive to mucous membranes, upper respiratory tract, eyes and skin. Inhalation may be fatal. Symptoms may include burning sensation, coughing, wheezing, laryngitis, headache, nausea and vomiting.
Chronic Toxicity
Possible carcinogen. May cause damage to the lungs

12. ECOLOGICAL EFFECTS

General
Take care to prevent chemicals from entering the ground, water courses or drainage systems.
13. DISPOSAL CONSIDERATIONS

Disposal
Disposal should be via an approved contractor and should take full account of local regulations.

14. TRANSPORT INFORMATION

UN Number : 1298
Land Transport
ADR/RIC Code/Class: 3.2 /Packing Group II
Maritime Transport IMDG Code/Class : 3.2 /Packing Group II
Air Transport IATA Code/Class : 3.2 /Packing Group II

15. REGULATORY INFORMATION

CAS Number : 75-77-4
EINECS Number : 2009005
EEC Number :
UN Number : 1298
RTECS Number : VV2710000
Hazard Indication :
HIGHLY FLAMMABLE ~ TOXIC ~ CORROSIVE

Risk and Safety Phrases
Highly flammable.
Reacts violently with water.
Toxic by inhalation, in contact with skin and if swallowed.
Causes burns.
Possible risk of irreversible effects.
Keep away from sources of ignition - No Smoking.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.
If you feel unwell, seek medical advice (show the label where possible).

TSCA: Listed substance.

16. OTHER INFORMATION

It must be recognised that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Last Review: 3rd August 1998
Date Printed : 18th September 1998