Guidechem Ch

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Marketing Office :

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MATERIAL SAFETY DATA SHEET (MSDS)

TRI METHYL CHLOROSILANE (TMCS)

Product name: TRI METHYL CHLORO SILANE- TMCS

MSDS Code TMCS

1. Identification of the substance & the company

Chemical Name: Trimethyl Chlorosilane – TMCS

Synonyms: Trichloromethyl silane, Chlorotrimethylsilane, Methyltrichlorosilane,

Chloromethyltrimethylsilane, Trimethylmonochlorosilane

Chemical Formula: C3H9ClSi

CAS No.: 75-77-4

2. Composition/Information on Ingredients

Hazardous components

Chemical Name CAS N° Symbol(s) R-phrase(s) Trimethylmonochlorosilane R11,R14,R35,R37 75-77-4 C. F

Concentration 98- 100% 3. Hazards Identification

Risk advice to man and the environment: Highly flammable

Reacts violently with water Causes burns Irritating to respiratory system

4. First -aid measures

General advice: Take care of self protection and call immediately for a doctor. Move out Of dangerous area. Take off all contaminated clothing Immediately.

Inhalation: Move person into the fresh air, keep warm, keep rest. If breathing resuscitation immediately. If heart stops, initiate heart stops, initiate artificial massage immediately.

Skin contact: Wash off immediately with plenty of water. **Eye contact:** Immediately flush eye(s) with plenty of water.

Ingestion: Rinse mouth. Do not induce vomiting.

5. Fire - fighting measures

Suitable extinguishing media: dry powder alcohol – resistant foam Carbon dioxide (CO2)

Extinguishing media: Water, which must not be used ,Reacts violently with water **Specific hazards during fire fighting:** In case of fire, formation of hydrochloric acid, Highly dispersed silicic acid.

Special protective Equipment for fire fighters: Wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

Personnal precautions: Use personal protective equipment.

Methods for cleaning up: Take up with absorbent for chemicals or, if necessary

with dry sand

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7. Handling and storage

Handling

Advice on safe handling: Open container under local exhaust. Handle and open container with care. Take measures to prevent the build up of electrostatics charge.

Explosion protection necessary

Requirement for storage Area and containers: Keep containers tightly closed in a cool, well ventilated place.

8. Procedures controls for workers exposure and characteristics regarding equipment for personal protection

Personal protective equipment

Respiratory protection: Respirator with type ABEK filter if product vapour is formed.

Hand protection: Gloves made of Viton **Eve protection :** Tightly fitting safety goggles **Protective measures:** Avoid inhaling vapours.

Avoid contact with skin and eyes. If not feeling well, consult a physician (When

possible show MSDS)

9. Physical and chemical properties

Appearance

Form Colour **Odour** Liquid brown stringing

Safety relevant data

Melting point/range : -58, 7° C [Method : No information available] **Boiling point /range :** 58° C [Method : No information available]

Flash point: -18°C [Method: DIN 51755]

Ignition temperature : 460°C [Method : DIN 51794]

Lower explosion limit: 1,2% (V) [Method: No information available] **Upper explosion limit:** 39% (V) [Method: No information available]

Vapour pressure: 247 hPa at 50°C [Method: EU A4]

Vapour pressure: 921 hPa at 55°C [Method: No information available]

Density: 0,87 g/cm3 at 20°C [Method DIN 51757] **Density:** 0,865 g/cm3 at 15°C [Method DIN 51757] **Density:** 0,823 g/cm3 at 50°C [Method DIN 51757]

10. Stability and reactivity

Hazardous decomposition products: Hydrogen chloride gas

Hazardous reactions: Reacts violently with water, alkalines, acids, alcohols,

esters, ketones, aldehydes and amino compounds.

11. Toxicological information

Acute inhalation toxicity: LCL0 mousse

Dose: 0.5 mg/1

Skin irritation: Rabbit

Result: Corrosive

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12. Ecological information

Ecotoxicity effets

Toxicity to fish: Species: Brachydanio rerio

Dose: 1.000 mg/1 Exposure time: 96 h

Remarks: No harmful influence **Toxicity to bacteria:** EC50 Species: activated sludge Dose: >10.000 mg/1

13. Disposal considerations

Product: According to local regulations, can be taken to an appropriate incinerator

Equipped with exhaust gas cleaning. Contact supplier for return shipment.

14.Transport information

ADR

UN-N° 1298 Class 3 Item 21 Letter

Description of the goods Trimethylchlorosilane

IMDG

UN-N° 1298 Class 3.1 Ems 3-04 MFAG 700 **IMDG** Page 3145 Packaging group TT

Marine pollutant

Description of the goods Trimethylchlorosilane

IATA

UN-N° 1298 Class 3 Packaging group TT

Description of the goods Trimethylchlorosilane

15. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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