1 Identification of substance

<table>
<thead>
<tr>
<th>Product details</th>
<th>Triethylchlorosilane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade name</td>
<td>A15547</td>
</tr>
<tr>
<td>Stock number</td>
<td>L03700</td>
</tr>
<tr>
<td>Manufacturer/Supplier: Alfa Aesar GmbH &amp; Co.KG Zeppelinstraße 7 D-76185 Karlsruhe / Germany</td>
<td></td>
</tr>
<tr>
<td>Informing department: Product safety department.</td>
<td></td>
</tr>
<tr>
<td>Emergency information: Gifhorn University Mainz / Poison Information Center Mainz <a href="http://www.gifinfo.uni-mainz.de">www.gifinfo.uni-mainz.de</a> Telefon:+49(0)6131/19240</td>
<td></td>
</tr>
</tbody>
</table>

2 Hazards identification

| Hazard designation: C Corrosive |
| Information pertaining to particular dangers for man and environment: R 10 Flammable. R 34 Causes burns. |

3 Composition/information on ingredients

| Chemical characterization: | Triethylchlorosilane (CAS# 994-30-9): 100% |
| Identification number(s): | 213-615-6 |

4 First aid measures

| General information: Instantly remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. |
| After inhalation: Seek immediate medical advice. |
| After skin contact: Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. |
| After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor. |
| After swallowing: Seek immediate medical advice. |

5 Fire fighting measures

| Suitable extinguishing agents: In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. |
| Suitable extinguishing agents: Water. |
| Special hazards caused by the material, its products of combustion or flue gases: Can be released in case of fire: Carbon monoxide and carbon dioxide Silicon oxide Hydrogen chloride (HCl) |

6 Accidental release measures

| Person-related release precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Do not allow material to be released to the environment without proper governmental permits. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Keep away from ignition sources. See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal. |
| Measures for environmental protection: |
| Measures for cleaning/collection: |
| Additional information: |

7 Handling and storage

| Handling: Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. |
| Information for safe handling: |
| Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. |
| Storage: No special requirements. Store away from water. Store away from oxidizing agents. |
| Requirements to be met by storerooms and containers: |
| Information about storage in one common storage facility: |
| Further information about storage conditions: |

8 Exposure controls and personal protection

| Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. |
| (Cont'd. on page 2) |
Trade name: Triethylchlorosilane

Components with critical values that require monitoring at the workplace:
Not required.
Additional information: No data

Personal protective equipment
General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

Breathing equipment: Use breathing protection with high concentrations.

Protection of hands: Check protective gloves prior to each use for their proper condition.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Eye protection: Safety glasses,
Tightly sealed safety glasses.

Body protection: Full face protection
Face protection
Protective work clothing.

9 Physical and chemical properties:

General Information
Form: Liquid
Colour: Colourless
Smell: Not determined

Change in condition
Melting point/Melting range: Not determined
Boiling point/Boiling range: 145-147°C
Sublimation temperature / start: Not determined

Flash point: 22°C
Ignition temperature: Not determined
Decomposition temperature: Not determined

Critical values for explosion:
Lower: Not determined
Upper: Not determined

Steam pressure: Not determined
Density at 20°C: 0.898 g/cm³

Solubility in / Miscibility with
Water: Decomposes

10 Stability and reactivity
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
Wet/oxidizing agents

Materials to be avoided:
Oxidizing agents

Dangerous reactions: No dangerous reactions known
Carbon monoxide and carbon dioxide
Silicon oxide
Hydrogen chloride (HCl)

11 Toxicological information

Acute toxicity:
Primary irritant effect:
on the skin: Caustic effect on skin and mucous membranes.
on the eye: Irritant for skin and mucous membranes.
Sensitization:
No sensitizing effect known.

Additional toxicological information:
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12 Ecological information:

General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product:
Recommendation: Consult state, local or national regulations for proper disposal.
Hand over to disposers of hazardous waste.
Must be specially treated under adherence to official regulations.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
ADR/RID-GGVS/E Class: 3 (FC) Flammable liquids.
Kemter Number: 338
UN-Number: 2924
Packaging group: II

(Contd. on page 3)
Trade name: Triethylchlorosilane

### Maritime transport IMDG/GGVSea:
- **IMDG/GGVSea Class:** 3
- **UN Number:** 2524
- **Label:** 3+8
- **Correct technical name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Triethylchlorosilane)

### Air transport ICAO-TI and IATA-DGR:
- **ICAO/IATA Class:** 3
- **UNID Number:** 2524
- **Label:** 3+8
- **Correct technical name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Triethylchlorosilane)

### 15 Regulatory information

#### Designation according to EC guidelines:
- **Code letter and hazard designation of product:** C Corrosive

#### Risk phrases:
- 10 Flammable
- 34 Causes burns

#### Safety phrases:
- 7 Keep container tightly closed
- 20 When using do not eat or drink
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- 33 Take precautions against static discharges
- 35/37/39 Wear suitable protective clothing, gloves and eye/face protection
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- 60 This material and its container must be disposed of as hazardous waste.

#### National regulations
- Employment restrictions concerning young persons must be observed
- For use only by technically qualified individuals

#### Information about limitation of use:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water

### 16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Department issuing data specification sheet:** Health, Safety and Environmental Department

**Contact:** Paul V. Connolly