

INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **Triethylgermanium chloride**
Product code: EO00625
Company: INTATRADE Chemicals GmbH
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REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS No.: 994-28-5

2. HAZARDS IDENTIFICATION

Hazard designation: C Corrosive
Information pertaining to particular dangers for man and environment: R 34 Causes burns.
GHS label elements:



Danger

Prevention: H314 - Causes severe skin burns and eye damage.
Response: P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage: P405 Store locked up.
Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Designation: Triethylgermanium chloride
Synonyms Chlorotriethylgermane
CAS-No.: 994-28-5
EC-No.: 213-614-0

4. FIRST AID MEASURES

General information	Instantly remove any clothing soiled by the product.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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:	CO ₂ , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
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, Hydrogen chloride (HCl), Metal oxide
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting:	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.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. HANDLING AND STORAGE

Handling	
Information for safe handling:	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.
Storage	
Requirements to be met by storerooms and containers:	No special requirements.
Information about storage in one common storage facility:	Store away from water.
Further information about storage conditions:	Store away from oxidizing agents. Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water. Store in a locked cabinet or with access restricted to technical experts

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.
Components with critical values that require monitoring at the workplace:	Not required.
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.
Eye protection:	Tightly sealed safety glasses, full face protection
Body 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:	<-50°C
Boiling point/Boiling range:	175.9°C
Sublimation temperature/start:	Not determined

Flash point:	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined
Upper:	Not determined
Steam pressure:	Not determined
Density at 20°C:	1.18 g/cm ³

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided:	Water/moisture, oxidizing agents
Dangerous reactions:	No dangerous reactions known
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide, Hydrogen chloride (HCl), Metal oxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
Primary irritant effect:	
on the skin:	Corrosive effect on skin and mucous membranes. Irritant for skin and mucous membranes.
on the eye:	Strong corrosive effect. Irritant effect.
Sensitization:	No sensitizing effect known.
Additional toxicological information:	Swallowing will lead to a strong caustic effect on mouth and throat and

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12. ECOLOGICAL INFORMATION

Additional 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 packagings

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: 8 (C3) Corrosive substances.

Kemler Number: 80

UN-Number: 3265

Packaging group: II

Label: 8

Designation of goods: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Triethylgermanium chloride)

Limited quantities (LQ) LQ22

Transport category: 2

Tunnel restriction code: E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: 8

UN Number: 3265

Label: 8

Packaging group: II

Marine pollutant: No

Segregation groups: Acids

Correct technical name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Triethylgermanium chloride)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8

UN/ID Number: 3265

Label: 8

Packaging group: II

Correct technical name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Triethylgermanium chloride)

UN "Model Regulation": UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II

15. REGULATORY INFORMATION

Code letter and hazard designation of product:	C Corrosive
Risk phrases:	34 Causes burns.
Safety phrases:	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. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 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	
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. OTHER INFORMATION

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.