



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: **Diethylgermanium dichloride**  
Product code: EO00627  
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.: 13314-52-8

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture      Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]  
Acute toxicity, Inhalation (Category 4)  
Acute toxicity, Dermal (Category 4)  
Acute toxicity, Oral (Category 4)  
Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
Classification according to EU Directives 67/548/EEC or 1999/45/EC  
Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and respiratory system.

Label elements      Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram      

Signal word      **Warning**

Hazard statement(s)      H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

Precautionary statement(s)      P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements      none

Hazard symbol(s)      According to European Directive 67/548/EEC as amended.  
X

R-phrases(s)      R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/37 Irritating to eyes and respiratory system.

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S-phrases)	S16 Keep away from sources of ignition - No smoking. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 Wear suitable protective clothing.
Other hazards	none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:	Dichlorodiethylgermane
Formula :	C <sub>4</sub> H <sub>10</sub> Cl <sub>2</sub> Ge
Molecular Weight :	201,67 g/mol
CAS-No.:	13314-52-8
EC-No.:	236-344-5

### 4. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed	Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Dermatitis, Symptoms may be delayed., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Indication of any immediate medical attention and special treatment needed	no data available

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Carbon oxides, Hydrogen chloride gas, Germanium oxides
Advice for firefighters	Wear self contained breathing apparatus for fire fighting if necessary.
Further information	Use water spray to cool unopened containers.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

### 7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Moisture sensitive.
Specific end use(s)	no data available

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	Components with workplace control parameters
Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye/face protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Body Protection	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form:	liquid
Colour:	colourless
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	63 °C - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1,372 g/cm <sup>3</sup> at 25 °C
Water solubility	no data available
Partition coefficient: noctanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available
Other safety information	no data available

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## 10. STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	no data available
Possibility of hazardous reactions	no data available
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity – single exposure	Inhalation - May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	no data available
Aspiration hazard	no data available
Potential health effects	
Inhalation	Harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes serious eye irritation.
Signs and Symptoms of Exposure	Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Dermatitis, Symptoms may be delayed., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	RTECS: Not available

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## 12. ECOLOGICAL INFORMATION

Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
Results of PBT and vPvB assessment	no data available
Other adverse effects	no data available

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## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product	This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

UN number	ADR/RID: 3265 IMDG: 3265 IATA: 3265
UN proper shipping name	
ADR/RID:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Dichlordiethylgerman)

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IMDG:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Dichlordiethylgerman)
IATA:	Corrosive liquid, acidic, organic, n.o.s. (Dichlordiethylgerman)
Transport hazard class(es)	ADR/RID: 8 IMDG: 8 IATA: 8
Packaging group	ADR/RID: II IMDG: II IATA: II
Environmental hazards	ADR/RID: no IMDG Marine Pollutant: no IATA: no
Special precautions for user	no data available

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## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific

for the substance or mixture no data available

Chemical Safety Assessment no data available

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## 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.