

INTATRADE
MATERIAL SAFETY DATA SHEET
Regulation (EC) No 1907/2006

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: **Vinylferrocene**
Product number: EO00624
Company: INTATRADE Chemicals GmbH
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
According to Regulation
(EC) No1272/2008 Flammable solids (Category 1)
According to European Directive
67/548/EEC as amended Highly flammable.
Label elements
Pictogram



Signal word Danger
Hazard statement(s) H228 Flammable solid
Precautionary statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Hazard symbol(s) F Highly flammable
R-phrase(s) R11 Highly flammable.
S-phrase(s) S16 Keep away from sources of ignition - No smoking.
S22 Do not breathe dust.
S24/25 Avoid contact with skin and eyes.
Other hazards none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name Vinylferrocene
CAS no. 1271-51-8
EINECS no. 215-041-1
Formula C₁₂H₁₂Fe
Molecular Weight 212.07
Classification Flam. Sol. 1; H228; F, R11
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
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	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical advice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters	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	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Measures for cleaning/collecting	Sweep up and shovel. 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. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment	
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).
Hand 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.
Eye protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection	Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Crystalline
pH	Not determined
Melting point/Melting range	51-53°C – lit.
Boiling point/Boiling range	80-85°C at 0,3hPa - lit.
Flash point	62°C - closed cup
Flammability (solid, gas)	The substance or mixture is a flammable solid with the subcategory 1.
Ignition temperature	Not determined
Lower critical values for explosion	Not determined
Upper critical values for explosion	Not determined
Water solubility	Not determined

10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat, flames and sparks; extremes of temperature and direct sunlight.
Materials to avoid	Strong oxidizing agents, strong acids
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions: Carbon oxides, Iron oxides

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	no data available
Specific target organ toxicity – repeated exposure	no data available
Aspiration hazard	no data available
Potential health effects	
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	RTECS: Not available

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Product	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	Disposal must be made according to official regulations. Dispose as unused product.

14. TRANSPORT INFORMATION

ADR/RID	UN-Number: 1325 Class: 4.1 Packing group: II Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Vinylferrocene)
IMDG	UN-Number: 1325 Class: 4.1 Packing group: II EMS-No: F-A, S-G Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Vinylferrocene) Marine pollutant: No
IATA	UN-Number: 1325 Class: 4.1 Packing group: II Proper shipping name: Flammable solid, organic, n.o.s. (Vinylferrocene)

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Flam. Sol.	Flammable solids
H228	Flammable solid
F	Highly flammable
R11	Highly flammable

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.