

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: **Ferrocenecarboxaldehyde**
Product code: EO00619
Company: INTATRADE Chemicals GmbH
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2. HAZARDS IDENTIFICATION

Hazard designation Void
Information pertaining to particular dangers for man and environment Not applicable
GHS label elements Void

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Designation: Ferrocenecarboxaldehyde
Synonyms: Cyclopentadienyl(formylcyclopentadienyl)iron
CAS-No.: 12093-10-6
EC-No.: 235-158-1

4. FIRST AID MEASURES

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 medical treatment.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents CO₂, 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
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:	Collect mechanically.
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:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions necessary if used correctly.
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 oxidizing agents and from strong bases.
Further information about storage conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

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.
Breathing equipment:	Use breathing protection with high concentrations.
Eye protection:	Safety glasses
Body protection:	Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Form:	Crystalline
Colour:	Orange, red
Smell:	Not determined
Change in condition	
Melting point/Melting range:	124°C
Boiling point/Boiling range:	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:	Not determined
Solubility in water:	Insoluble

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided:	Oxidizing agents, bases
Dangerous reactions:	No dangerous reactions known
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide, metal oxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
Primary irritant effect:	
on the skin:	May cause irritation
on the eye:	May cause irritation
Sensitization:	No sensitizing effect known.
Additional toxicological information:	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:	Generally not hazardous for water. 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:	None
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:	None
Marine pollutant:	No

Air transport ICAO-TI and IATA-DGR:

Transport/Additional information: Not dangerous according to the above specifications.

15. REGULATORY INFORMATION

Designation according to EC guidelines: Observe the normal safety regulations when handling chemicals
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

National regulations
Information about limitation of use: For use only by technically qualified individuals.
Water hazard class: Generally not 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.