



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: **Ferrocenecarboxylic acid**
Product code: EO00620
Company: INTATRADE Chemicals GmbH
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2. HAZARDS IDENTIFICATION

Hazard designation: Xi Irritant
Information pertaining to particular dangers for man and environment: R 36/37/38 Irritating to eyes, respiratory system and skin.
GHS label elements:

**Warning**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Prevention: P280 Wear protective gloves.
Response: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Designation: Ferrocenecarboxylic acid
CAS-No.: 1271-42-7
EC-No.: 215-040-6

4. FIRST AID MEASURES

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
After skin contact Seek immediate medical advice.
Instantly wash with water and soap and rinse thoroughly.
After eye contact Seek immediate medical advice.
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: CO₂, extinguishing powder or water jet. Fight larger fires with water jet

Special hazards caused by the material, its products of combustion or flue gases:
Protective equipment:

or alcohol-resistant foam.
Can be released in case of fire:
Carbon monoxide and carbon dioxide
Metal oxide
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).
Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling

Information for safe handling:

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 oxidizing agents.

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.
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.

Impervious gloves

Penetration time of glove material:

Not determined

Eye protection:

Safety glasses

Face protection

Body protection:

Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

General Information

Form: Crystalline
Colour: Orange
Smell: Odourless

Change in condition

Melting point/Melting range: ca 210°C (dec)
Boiling point/Boiling range: Not determined
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: Not determined
Solubility in water: Not miscible or difficult to mix

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
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: Irritant for skin and mucous membranes.
 on the eye: Irritant effect.
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:

ICAO/IATA Class: None

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

15. REGULATORY INFORMATION

Designation according to EC guidelines

Code letter and hazard

designation of product: Xi Irritant

Risk phrases: 36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

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: 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.