

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: Tert-Butylferrocene  
Product number: EO03971  
Company: INTATRADE Chemicals GmbH  
Bahnhofstr. 1  
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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

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name Tert-Butylferrocene  
CAS no. 1316-98-9  
Formula C<sub>14</sub>H<sub>18</sub>Fe 10\*  
Molecular Weight 242.14

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## 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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical advice.

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## 5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
For safety reasons unsuitable extinguishing agents: Water.  
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.

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## 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).
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: Protect from heat. 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 air.

Further information about storage conditions: Avoid contact with air / oxygen. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

## 8. EXPOSURE CONTROLS/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 eyes and skin.

Breathing equipment: Use breathing protection with high concentrations.

Hand protection: Use proper protective gloves.

Eye protection: Safety glasses

Body protection: Protective work clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Dark orange
Smell:	Not determined
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	80°C (0.15mmHg)
Sublimation temperature/start:	Not determined
Flash point:	> 109°C
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Lower critical values for explosion:	Not determined

Upper critical values for explosion: Not determined  
Steam pressure: Not determined  
Density at 20°C: 1.201g/cm<sup>3</sup>  
Solubility in water: Not miscible or difficult to mix

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## 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, air  
Dangerous reactions: No dangerous reactions known.  
Dangerous products of decomposition: Carbon monoxide and carbon dioxide, Metal oxide

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:  
Primary irritant effect on the skin: May cause irritation  
Primary irritant effect 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.

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## 12. ECOLOGICAL INFORMATION

General notes: Generally not hazardous for water.  
Do not allow material to be released to the environment without proper governmental permits.

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## 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.

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## 14. TRANSPORT INFORMATION

ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods  
Transport/Additional information: Not dangerous according to the above specifications.

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## 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.

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## 16. OTHER INFORMATION

EO03971

[www.intatrade.de](http://www.intatrade.de)

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### 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.