Printing date 17.07.2021	Revision: 17.07.2021
SECTION 1: Identification of the substance/m	nixture and of the company/undertaking
· 1.1 Product identifier	
· Trade name: Bis(cyclopentadienyl)iron, 99% (Ferrocen	<u>(e)</u>
<ul> <li>Item number: 26-1700</li> <li>CAS Number: 102-54-5</li> <li>EC number: 203-039-3</li> <li>1.2 Relevant identified uses of the substance or mixture No further relevant information available.</li> </ul>	and uses advised against
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Strem Chemicals, Inc.</li> </ul>	

Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com

• Further information obtainable from: Technical Department • 1.4 Emergency telephone number:

*EMERGENCY:* CHEMTREC: +1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

# **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 Void · Hazard pictograms Void · Signal word Void · Hazard statements Void · Precautionary statements P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 2.3 Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

# **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 102-54-5 ferrocene

 $(Contd. \ on \ page \ 2)$ 

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Trade name: Bis(cyclopentadienyl)iron, 99% (Ferrocene)

· Identification number(s)

• EC number: 203-039-3

### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### **SECTION 6:** Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- $\cdot$  6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
- Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

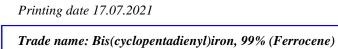
(Contd. on page 3)



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<sup>-</sup> GB

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<ul> <li>8.1 Control parameters <ul> <li>Ingredients with limit values that require monitoring at the workplace: Not required.</li> <li>Additional information: The lists valid during the making were used as basis.</li> <li>8.2 Exposure controls <ul> <li>Personal protective equipment:</li> <li>General protective and hygienic measures:</li> <li>The usual preveautionary measures are to be adhered to when handling chemicals.</li> </ul> </li> <li>Respiratory protection: Not required. <ul> <li>Protective gloves</li> </ul> </li> <li>Protective gloves</li> </ul> </li> <li>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation./ the chemical mixture.</li> <li>Selection of the gloves does not only depend on the material, but also on further marks of quality arvaries from manufacturer to manufacturer.</li> <li>Penetration time of glove material</li> <li>The exact break through time has to be found out by the manufacturer of the protective gloves and has to l observed.</li> <li>Seperotection: Safety glasses</li> <li>9.1 Information on basic physical and chemical properties</li> <li>General Information</li> <li>Adpearance:         <ul> <li>Form:</li> <li>Crystalline</li> <li>Odour:</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries</li> <li>Odouries:</li> <li>Odouries:</li> <li>Odouries:</li> <li>Odouries:</li> <li>Odouries:</li> <li>Odouries:</li> <li>Odouries:</li> <li>Odouries:</li> <li>Odouries:</li> <li>Not applicable.</li> </ul> </li> <li>Firstion:</li> <li>France:</li> <li>Product is not flammable.</li> <li>Fignition temperature:</li> <li>Not determined.</li> <li>Fignition temperature:</li> <li>Not determined.</li> </ul>		
<ul> <li>Ingredients with limit values that require monitoring at the workplace: Not required.</li> <li>Additional information: The lists valid during the making were used as basis.</li> <li>Additional information: The lists valid during the making were used as basis.</li> <li>As Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures:</li> <li>The usual precautionary measures are to be adhered to when handling chemicals.</li> <li>Respiratory protection: Not required.</li> <li>Protective gloves</li> <li>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</li> <li>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation of the selection of the substance/ the preparation.</li> <li>Material of gloves</li> <li>Penetration for diffusion and the degradation of the selection of the substance/ the properties of quality arvaries from manufacturer to manufacturer.</li> <li>Penetration inte of glove material</li> <li>The exact break through time has to be found out by the manufacturer of the protective gloves and has to b observed.</li> <li>Seperotection: Safety glasses</li> <li>9.1 Information on basic physical and chemical properties</li> <li>General Information</li> <li>Adjuer: Orange</li> <li>Odour: Orange</li> <li>Odour: Orange</li> <li>Odouries 240 °C</li> <li>Flash point! Not applicable.</li> <li>Flamability (solid, gas): Product is not flammable.</li> <li>Ignition temperature: Not determined.</li> <li>Purclus: Not determined.</li> <li>Explosite properties: Product does not present an explosion hazard.</li> <li>Explosite properties: Not determined.</li> <li>Puper: Not determined.</li> <li>Puper: Not</li></ul>		(Contd. of page
Personal protective equipment:         General protective and hygienic measures:         The usual precountionary measures are to be adhered to when handling chemicals.         Respiratory protection: Not required.         Protection of hands:         Image: the state protective gloves         The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.         Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.         Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation or strikes from manufacturer to manufacturer.         Perstention time of gloves         The selection of the glove material on consideration out by the manufacturer of the protective gloves and has to le observed.         Perstention time of glove material         The exact break through time has to be found out by the manufacturer of the protective gloves and has to le observed.         Septeration:       Crystalline         Colour:       Orange         Odour:       Orange         Odour       Ordourless         Odour threshold:       Not determined.         PH-value:       Not applicable.         Planding point and boiling range: 249 °C       Product is not flammable.         Plange intoendition       Not applicable.         P	· Ingredients with limit values that rea	
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.         Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical misture.         Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation         Material of gloves         The selection of the suitable gloves does not only depend on the material, but also on further marks of quality ar varies from manufacturer to manufacturer.         Penetration time of glove material         The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.         Eye protection: Safety glasses         91 Information on basic physical and chemical properties         General Information         Appearance:         Form:       Crystalline         Colour:       Odourless         Odouries:       Odourless         Odouries:       Not applicable.         PH-value:       Not applicable.         • Flammability (solid, gas):       Product is not flammable.         Ingnition temperature:       Not determined.         • Jupicable.       Plaumability (solid, gas):         • Product is not flammable.       Ignition temperature:         • Decomposition temperature:       Not determined.         • Auto-ignition te	The usual precautionary measures an	re to be adhered to when handling chemicals.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.         Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation         Material of gloves         The selection of the suitable gloves does not only depend on the material, but also on further marks of quality ar varies from manufacturer to manufacturer.         Penetration time of glove material         The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.         Eye protection:         Safety glasses         9.1 Information on basic physical and chemical properties         General Information         Appearance:         Form:       Crystalline         Colour:       Odourless         Odour threshold:       Not determined.         PH-value:       Not applicable.         • Change in condition       Meting point/recing point:         Initial boiling point and boiling range: 249 °C         • Flash point:       Not determined.         • Jendowsition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosion limits:       Lower:         Lower:       Not determined. </td <td>Protective gloves</td> <td></td>	Protective gloves	
9.1 Information on basic physical and chemical properties         General Information         Appearance:         Form:       Crystalline         Colour:       Orange         Odour:       Odourless         Odour threshold:       Not determined.         • pH-value:       Not applicable.         • Change in condition       Melting point/freezing point:         Melting point/freezing point:       172-173 °C         Initial boiling point and boiling range:       249 °C         • Flash point:       Not applicable.         • Flash point:       Not applicable.         • Flammability (solid, gas):       Product is not flammable.         • Ignition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosion limits:       Lower:         Lower:       Not determined.         • Lower:       Not determined.         • Upper:       Not determined.         • Vapour pressure:       Not applicable.         • Density at 20 °C:       0.9 g/cm <sup>3</sup>	Due to missing tests no recommendation chemical mixture. Selection of the glove material on con- <b>Material of gloves</b> The selection of the suitable gloves do varies from manufacturer to manufact <b>Penetration time of glove material</b> The exact break through time has to observed.	ution to the glove material can be given for the product/ the preparation/ th nsideration of the penetration times, rates of diffusion and the degradation loes not only depend on the material, but also on further marks of quality an cturer.
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Melting point/freezing point:172-173 °CInitial boiling point and boiling range:249 °CFlash point:Not applicable.Flammability (solid, gas):Product is not flammable.Ignition temperature:Not determined.Decomposition temperature:Not determined.Auto-ignition temperature:Not determined.Explosive properties:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Vapour pressure:Not applicable.Out applicable.0.9 g/cm³	-	
Initial boiling range: 249 °C• Flash point:Not applicable.• Flammability (solid, gas):Product is not flammable.• Ignition temperature:Not determined.• Decomposition temperature:Not determined.• Auto-ignition temperature:Not determined.• Explosive properties:Product does not present an explosion hazard.• Explosion limits:Not determined.• Lower:Not determined.• Vapour pressure:Not applicable.• Density at 20 • C:0.9 g/cm³		172-173 °С
• Flammability (solid, gas):       Product is not flammable.         • Ignition temperature:       Not determined.         • Decomposition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Not determined.         µpper:       Not determined.         • Vapour pressure:       Not applicable.         • Density at 20 °C:       0.9 g/cm <sup>3</sup>		
Ignition temperature:       Not determined.         Decomposition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Image: Not determined.         • Upper:       Not determined.         • Vapour pressure:       Not applicable.         • Density at 20 °C:       0.9 g/cm <sup>3</sup>	· Flash point:	Not applicable.
Decomposition temperature:       Not determined.         Auto-ignition temperature:       Not determined.         Explosive properties:       Product does not present an explosion hazard.         Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         Vapour pressure:       Not applicable.         Density at 20 °C:       0.9 g/cm <sup>3</sup>	· Flammability (solid, gas):	Product is not flammable.
• Auto-ignition temperature:       Not determined.         • Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Image: Comparison of the explosion hazard.         • Lower:       Not determined.         • Upper:       Not determined.         • Vapour pressure:       Not applicable.         • Density at 20 °C:       0.9 g/cm <sup>3</sup>		
• Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         • Vapour pressure:       Not applicable.         • Density at 20 °C:       0.9 g/cm <sup>3</sup>	· Ignition temperature:	
<ul> <li>Explosion limits: Lower: Upper: Not determined. Not determined.</li> <li>Vapour pressure: Not applicable. 0.9 g/cm<sup>3</sup></li> </ul>	с <b>х</b>	Not determined.
Lower: Upper:Not determined.Vapour pressure:Not applicable.Density at 20 °C:0.9 g/cm³	с <b>х</b>	
Upper:Not determined.· Vapour pressure:Not applicable.· Density at 20 °C:0.9 g/cm³	Decomposition temperature: • Auto-ignition temperature:	Not determined.
Not applicable.       • Density at 20 °C:     0.9 g/cm <sup>3</sup>	Decomposition temperature: • Auto-ignition temperature: • Explosive properties:	Not determined.
• Density at 20 °C: 0.9 g/cm <sup>3</sup>	Decomposition temperature: • Auto-ignition temperature: • Explosive properties: • Explosion limits: Lower:	Not determined. Product does not present an explosion hazard. Not determined.
	Decomposition temperature: • Auto-ignition temperature: • Explosive properties: • Explosion limits: Lower: Upper:	Not determined. Product does not present an explosion hazard. Not determined. Not determined.
· Relative density     Not determined.	Decomposition temperature: • Auto-ignition temperature: • Explosive properties: • Explosion limits: Lower: Upper: • Vapour pressure:	Not determined. Product does not present an explosion hazard. Not determined. Not determined. Not applicable.
	Decomposition temperature: • Auto-ignition temperature: • Explosive properties: • Explosion limits: Lower: Upper: • Vapour pressure: • Density at 20 °C:	Not determined.         Product does not present an explosion hazard.         Not determined.         Not determined.         Not applicable.         0.9 g/cm <sup>3</sup>





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· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC (EC)	0.00 %	
Solids content:	100.0 %	
• 9.2 Other information	No further relevant information available.	

# **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

102-54-5 ferrocene

Oral LD50 1320 mg/kg (rat)

· Primary irritant effect:

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- $\cdot$  Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot$  **Reproductive toxicity** Based on available data, the classification criteria are not met.
- $\cdot$  **STOT-single exposure** Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- $\cdot \textit{Aspiration hazard Based on available data, the classification criteria are not met.}$

# **SECTION 12: Ecological information**

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

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- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	tion	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not regulated	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	
· UN ''Model Regulation'':	not regulated	

# **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

· Contact: Technical Director

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

