



1 Identification Product identifier

Product name: Vinylferrocene

Stock number: 17450, L10078 CAS Number: 1271-51-8 EC number: 215-041-1 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 2 Flammability = 1 Physical Hazard = 1

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 1-51-8 Vinylferrocene Identification number(s): EC number: 215-041-1

4 First-aid measures

Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact

Immediately 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 a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dióxide Metal oxide fume

Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically.

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Product name: VINylferrocene			
(Contd. of page Prevention of secondary hazards: Keep away from ignition sources. 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.			
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Information about protection against explosions and fires: Keep ignition sources away. 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: No information known. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.			
Specific end use(s) No further relevant in	nformation available.		
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. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data			
Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Safety glasses			
9 Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form: Color:	Powder Orange		
Odor: Odor threshold:	Not determined Not determined.		
	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	52-55 °C (126-131 °F) 80-85 °C (176-185 °F) (0.7mm Hg) Not determined		
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	62 °C (144 °F) Product is not flammable. Not determined Not determined. Not determined.		
Danger of explosion: Explosion limits: Lower:	Product does not present an explosion hazard. Not determined		
Vapor pressure: Density: Relative density Vapor density	Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.		
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity:	Insoluble		
kinematic:	Not applicable. No further relevant information available.		
10 Stability and reactivity Reactivity No information known.			

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents

Product name: Vinylferrocene			
No information known.	(Contd. of page 2)		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Metal oxide fume			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data			
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation			
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.			
Carcinogenicity: No classification data on carcinogenic properties of this mater Reproductive toxicity: No effects known.	rial is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known.			
Aspiration hazard: No effects known.			
Subacute to chronic toxicity: Iron compounds may cause vomiting, diarrhea, pink urine, black stool, and liver	Iron compounds may cause vomiting, diarrhea, pink urine, black stool, and liver damage. May cause damage to the kidneys. Irritating to the respiratory tract, they		
may cause pulmonáry fibrosis if dušts are inhaled. Subacute to chronic toxicity: No effects known.			
Additional toxicological information: To the best of our knowledge the acute	and chronic toxicity of this substance is not fully known.		
12 Ecological information			
Toxicity Aquatic toxicity: No further relevant information available.			
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.			
Mobility in soil No further relevant information available. Additional ecological information:			
General notes:			
Do not allow material to be released to the environment without proper governmental permits. Avoid transfer into the environment.			
Results of PBT and vPvB assessment PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further relevant information available.			
13 Disposal considerations Waste treatment methods			
Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings:	disposal.		
Recommendation: Disposal must be made according to official regulations.			
14 Transport information			
Not a hazardous material for transportation. UN-Number			
DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
Transport hazard class(es)			
DOT, ADR, IMDG, IATA Class	None		
Packing group DOT, IMDG, IATA			
Environmental hazards:	None Not applicable.		
Special precautions for user	Not applicable.		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the su	whateres as mistring		
GHS label elements Not applicable			
Hazard pictograms Not applicable Signal word Not applicable			
Hazard statements Not applicable National regulations			
This product is not listed in the U.S. Environmental Protection Agency Toxic Sul to research and development only. This product must be used by or directly und	Ibstances Control Act Chemical Substance Inventory. Use of this product is restricted der the supervision of a technically qualified individual as defined by TSCA. This		
product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed.			
California Proposition 65			
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.			
Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.			
Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations			
Other regulations, limitations and prohibitive regulations (Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed			

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The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed.
Substance is not listed.
Annex XVI of the REACH Regulations (requiring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.