

SAFETY DATA SHEET (SDS)


Iron (III) chloride, 1M

Issue date: 24-07-2020

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Iron (III) chloride, 1M
Product Codes:	MC 91.13, MC92.13
Other means of identification:	
Alternative name and code/s:	FeCl _{3(aq)} Ferric chloride, 1M
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	1/44 Rushdale Street Knoxfield Victoria 3180 Australia
Suppliers Phone No.:	1300 138 561
Suppliers Fax No.:	+613 9753 3896
Emergency Phone number (BH)	1300 138 561

Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Substance or mixture corrosive to metals Category 1, Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2, Hazardous to the aquatic environment - Chronic Category 3, Acute Toxicity - Oral Category 4
Label elements	
Hazard Pictograms:	
Signal Word:	Danger
Hazard Statements:	May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Corrosive to skin, eyes and lungs.

Precautionary Statements:	<p>Prevention Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest.</p> <p>Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs, get medical advice/ attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor. Call a POISONS CENTRE/doctor if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep lid tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
Other Hazards	
Results of PBT and vPvB assessment:	<p>PBT: Not applicable</p> <p>VPvB: Not applicable</p>

Section 3: Composition/information on ingredients

Ingredients			
Name	CAS	Proportion	Hazard Class
Iron (III) chloride	7705-08-0	16.2%	Solid: Substance or mixture corrosive to metals Category 1, Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2, Hazardous to the aquatic environment - Chronic Category 2, Acute Toxicity - Oral Category 4
Water	7732-18-5	83.8%	None

Section 4: First Aid Measures

General Information	
After Inhalation:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; Call a doctor.
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs: get medical advice/ attention.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	Rinse mouth. Seek medical advice and show container, label or SDS.
Information for doctor:	
Most important symptoms and effects both acute and delayed:	Treat symptomatically.
Indications of any immediate medical attention and special treatment needed	No further relevant information available.

Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing agents:	Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
Hazardous combustion products:	Metal oxides, toxic gases
Advice for firefighters	
Protective equipment:	Do not enter the fire area without proper protective equipment including respiratory equipment.

Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Ventilate the contaminated area. Evacuate the area promptly. Avoid breathing dust/fume/gas/mist/vapours/spray.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters.
Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation. Dike with suitable absorbent material like granulated clay. Use an inert absorbent such as sand or vermiculite. Place in properly labelled closed container. Contain the discharged material. Block any potential routes to water systems. Absorb spillage to prevent material damage.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Keep only in original container. Ensure good ventilation/exhaustion at the workplace. Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse.
Information about fire – and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities.	
Storage:	Keep only in original container. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place. Readily absorbs moisture from air. Avoid direct sunlight and heat. Keep away from water and ice. Avoid contact with skin and eyes. Harmful by inhalation and if swallowed.
Requirements to be met by storerooms and receptacles:	Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed in a cool, well ventilated place.

Information about storage in one common storage facility:	Separate acids from bases; separate oxidiser acids from organic acids.
Further information about storage conditions:	Keep container tightly sealed. Keep out of direct sunlight.
Specific end use(s):	No further relevant information available.

Section 8: Exposure controls/personal protection.

General information	
Additional information about design of technical facilities:	No further data: see section 7
Control parameters:	
Ingredients with limit values that require monitoring at the workplace: not required	
Exposure Controls:	
General protective and hygienic measures:	Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and food. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes. Keep eyewash fountain nearby
Respiratory protection:	No respiratory protection required under normal conditions of use. If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure, provide respiratory protection.
Clothing / Footwear and equipment	No special requirements.
Protection of hands:	PVC or rubber gloves
Eye protection:	Tightly sealed goggles
Skin protection:	Laboratory Coat

Section 9: Physical and chemical properties

Appearance:	
Form:	Liquid
Colour:	Red-brown
Odour:	No data available
Odour Threshold:	No data available
pH value:	No data available
Change in Condition:	
Melting point/Melting range:	No data available
Boiling point/Boiling range:	No data available
Flash point:	No data available
Flammability (solid / gaseous)	No data available

Ignition Temperature	
Decomposition temperature:	No data available
Self-igniting:	No data available
Danger of explosion:	No data available
Explosion limits	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available
Density:	No data available
General Info	
Relative density:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in/ Miscibility with water:	Miscible
Partition coefficient (n-octanol/water):	No data available
Viscosity:	No data available
Other information:	No further relevant information available

Section 10: Stability and reactivity

Reactivity	
General	No further relevant information available.
Chemical Stability	
Thermal decomposition / conditions to be avoided:	Stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Exposure to moisture
Incompatible materials:	Water-reactive materials, potassium Metal, sodium Metal
Hazardous decomposition products:	Toxic gases, metal oxides

Section 11: Toxicological information

Information on toxicological effects	
General	Acute toxicity

Primary irritant effect:	
Inhalation:	Not classified
Possibility of hazardous reactions:	Not classified
Conditions to avoid:	Not classified
Chronic Toxicity:	
General	Not classified

Section 12. Ecological information

Toxicity	
Aquatic toxicity:	Severe ecological hazard. This product may be toxic to plants and/or wildlife. Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Persistence and degradability:	Adsorbs to soil
Behaviour in environmental systems	
Bio-accumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information	
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
Other adverse effects:	No further relevant information available.

Section 13. Ecological information

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.
Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

Section 14. Transport information

General	UN number: 2582 Class: 8 Packing group: III Proper shipping name: Ferric chloride, solution, reportable quantity 484kg
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Section 15. Regulatory Information

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

Australian Inventory of Chemical Substances:	Substances are listed.
Standard for the Uniform Scheduling of Medicines and Poisons	S6
GHS label elements	None
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

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.