Vickers Laboratories Ltd - Safety Data Sheet

1121

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 1121

Product Name FERRIC CHLORIDE SOLUTION 60% w/v (40% w/w)

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire

LS28 6QW

UNITED KINGDOM

 Phone
 44 0113 2362811

 Fax
 +44(0)113 2362703

 Email
 safety@viclabs.co.uk

 Website
 www.viclabs.co.uk

1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811

(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Corrosive to metals, category 1 H290: May be corrosive to metals.

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

Skin corrosion/irritation, category 2 H315: Causes skin irritation.

Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

Precautionary Statements Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Section 3. Composition

3.2 Mixtures

Component	CAS No. EEC No.	CAS No. EEC No. REACH No. Conc w/w CLP Classification (1272/2008/CE)		CLP Classification (1272/2008/CE)
Iron salts, as Fe	>60% Met. Corr. 1,Acute Tox. 4 (O),Skin Irrit		Met. Corr. 1, Acute Tox. 4 (O), Skin Irrit. 2, Eye Dam. 1	

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION. Skin

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & 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. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards Presents no specific fire danger.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment.

6.2 Environmental precautions

Enviromental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental

Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious Major Spillage

amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

No specific precautions.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Ì	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Term (8hr TWA)		Short Term 15min period)	
Ì	Iron salts, as Fe		>60%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection Presents no significant inhalation health hazard.

Hand Protection Use nitrile gloves or PVC gauntlets.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Red-brown liquid. Appearance Odour Odourless. pН 2 @ 20°C **Boiling Point** Not available Melting Point Not applicable Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable No.

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.4500

Water Solubility Completely soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

No data available.

10.4 Conditions to Avoid

No specific conditions.

10.5 Incompatable Materials

Strong oxidising agents. Corrosive to metals, category 1.

Hazardous Decomposition

Products

Will decompose to emit toxic and irritant fumes of hydrogen chloride.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin The liquid will be irritating to the skin.

LD50 Skin Not available

Ingestion Harmful if swallowed. Ingestion will cause gastrointestinal irritation.

LD50 Oral 1872mg/kg Rat

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity No data available but known to be toxic to fish.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available

12.2 Persistence and

degradability

No data available.

No data available. **12.3** Bioaccumulative potential 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Dissolve in water and adjust pH to 7, then precipitate out as the sulphide. Filter off the insoluble material and dispose of at a licensed land-fill site. Destroy excess sulphide with sodium hypochlorite, neutralise the solution Disposal Methods

and wash to drain with copious amounts of water.

Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 2582

14.2 Proper Shipping Name Ferric chloride solution

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group III



14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Corrosive to metals, category 1; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye

damage/irritation, category 1

Signal word Danger

Hazard Pictograms





Hazard Statements H290, H302, H315, H318

May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

Precautionary Statements P280, P264, P305+P351+P338, P301+P312, P330

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 12 August 2023

Copyright: 2023 Vickers Laboratories Ltd