Vickers Laboratories Ltd - Safety Data Sheet

1123

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

Revision: 2.2 Revision date: 15 July 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 1123

Product Name IRON (III) NITRATE 9H2O pure

CAS Number 7782-61-8

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.

Molecular Formula Fe(NO,), .9H, O =404.00

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



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(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B

H314: Causes severe skin burns and eye damage.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements Causes severe skin burns and eye damage.

Precautionary Statements

Do not breathe dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ferric nitrate	7782-61-8 233-899-5		<100%	Skin Corr. 1B

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.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical

attention even if patient is not complaining of discomfort.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if

available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL

ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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 Water spray.
Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Nitrogen & sulphur oxides formed. Borane/boron oxides, Iron

Oxides.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

Only re-enter area with full protective clothing and breathing apparatus.

6.2 Environmental precautions

Environmental Keep 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

Major Spillage Shovel/sweep up into container for removal Wash area down with copious 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

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term	Long Term (8hr TWA)		Short Term 15min period)	
Ferric nitrate	7782-61-8	<100%	-	1.0 mg/m-3	-	2.0 mg/m-3	

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

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

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

Appearance Pale violet to greyish white somewhat deliquescent crystals.

Odour No specific odour. pH 1.5 @ 20 $^{\circ}$ C

Boiling Point >100 °C (Decomposition)

Melting Point 47 °C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No.

Oxidising Properties Not applicable Vapour Pressure Not applicable Relative Density 1.6800

Water Solubility Very 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.

reactions

Products

10.4 Conditions to Avoid Avoid contact with acids or combustible materials.

10.5 Incompatable Materials Strong reducing agents, Organic materials, Powdered metals.

Hazardous Decomposition May evolve toxic fumes if involved in a fire. Nitrogen & sulphur oxides formed. Borane/boron oxides, Iron

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Cause severe irritation and burns to the skin.

LD50 Skin Not available

Burns to mouth, throat and stomach. Ingestion

LD50 Oral 3250 mg/Kg Rat

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation >2000 mg/Kg Rat 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 Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available. 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

Disposal Methods Do not dispose of as domestic waste. Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 1466

14.2 Proper Shipping Name Ferric nitrate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 50
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 Skin corrosion/irritation, category 1B

Signal word Danger

Hazard Pictograms



Hazard Statements H314

Causes severe skin burns and eye damage.

Precautionary Statements P260, P280, P301+P330+P331, P303+P361+P353, P310, P305+P351+P338

Do not breathe dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

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.

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