SDS 3830 Iron (III) Nitrate

Date of Issue/re-issue: 12/02/2019

Expiry: 01/03/2024

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

ECP Limited

Company Name

Address:

39 Woodside Ave. Northcote. Auckland . New Zealand

Emergency Tel: 0800 243 622 or			Tel +64 9 480 4386		FAX +64 9 480 4385			
0800 CHE M CA LL		L						
Product	Iron (III) Nitrate Nonahydrate, Ferric Nitrate Nonahydrate Code 3830				3830			
CAS#	HSNO#	UN #	DG	Packing grou	p#	Tracking?	Handlers	
			Class/es				Certificate?	
7782-61-8								

Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification
Oxidizing liquids or solids (Category C)
Acute toxicity, Oral (Category E)
Skin irritation (Category A)
Eye irritation (Category A)
2.2 GHS Label elements, including precautionary statements

Signal word Warning

Hazard statement(s)

H272 May intensify fire; oxidizer.

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statement(s)

Prevention

Pictogram

P210 Keep away from heat.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

None

3. Composition/information on ingredients

Substance/Mixture: Substance

3.1 Substances

Hazardous components

Component	Classification	Concentration			
Ferric nitrate nonahydrate					
	5.1.1 C; 6.1 E; 6.3 A; 6.4 A;	<= 100 %			
	H272, H303, H315, H319				

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Absorption into the body leads to the formation of methaemoglobin which in sufficient

concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Nausea, dizziness, headache, weakness, incoordination, confusion, cyanosis, coma.

4.3 Indication of any immediate medical attention and special treatment needed No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Hygroscopic. Air sensitive. Store under inert gas.7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits Table

Component	CAS No	Value	Control parameters	Basis
Ferric nitrate	7782-	WES-	1 mg/m ³	New Zealand. Workplace Exposure
nonahydrate	61-8	TWA		Standards for Atmospheric Contaminants

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9. Physical and chemical properties

9.1 Information on basic physical and chemical propertiesa) AppearanceForm: solid

b) Odour No data available c) Odour Threshold No data available d) pH 1.5 at 20 °C e) Melting point/freezing point Melting point/range: 47 °C - lit. f) Initial boiling point and boiling range No data available g) Flash point Not applicable h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive limits No data available k) Vapour pressure No data available I) Vapour density No data available m) Relative density 1.68 g/cm³ at 20 °C n) Water solubility soluble o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available

10. Stability and reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
No data available
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Organic materials, Powdered metals
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions
Nitrogen oxides (NOx), Sulphur oxides, Borane/boron oxides, Iron oxides
Other decomposition products
No data available

11. Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 3,250 mg/kg Skin corrosion/irritation Causes skin burns. Serious eye damage/eye irritation Risk of serious damage to eyes. Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion May be harmful if swallowed. Causes burns. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns. Signs and Symptoms of Exposure Absorption into the body leads to the formation of methaemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Nausea, dizziness, headache, weakness, incoordination, confusion, cyanosis, coma. Additional information **RTECS: NO7175000**

12. Ecological information 12.1 Toxicity No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment No data available 12.6 Other adverse effects

No data available

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. Transport Information Table

		ADR/RID –	IMDG	IATA – DGR		
		European packaging	International	International Air Travel		
		certification	Maritime Dangerous	Association – Dangerous		
			Goods Code	Goods Regulations		
14.1	UN Number	3260	3260	3260		
14.2	UN Proper Shipping	CORROSIVE SOLID,	CORROSIVE SOLID,	Corrosive solid, acidic,		
	name	ACIDIC, INORGANIC,	ACIDIC, INORGANIC,	inorganic, n.o.s. (ferric		
		N.O.S. (Ferric nitrate	N.O.S. (Ferric nitrate	nitrate nonahydrate)		
		nonahydrate)	nonahydrate)			
14.3	Transport Hazard	8	8	8		
	Class					
14.4	Packaging group	П	П	11		
14.5	Environmental	No	No	No		
	Hazards					
14.6	Special precautions	No data available				
	for user					

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information

HSNO Group Standard Approval: HSR002693 - Laboratory Chemicals and Reagent Kits (Oxidising [5.1.1]) Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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