Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.2

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Section 1. Identification

1.1	Product Identifier	1731
	Product Name	IRON (II) SULPHIDE LUMP
	CAS Number REACH Registration No	1317-37-9 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	FeS =87.91
1.2 F		ne 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
	VICKERS LABORATORIES	Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM
	Phone Fax Email Website	44 0113 2362811 +44(0)113 2362703 safety@viclabs.co.uk 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 Hazard to aquatic environment, category 1

H400: Very toxic to aquatic life.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Warning

Hazard Pictograms



Hazard Statements

Very toxic to aquatic life.

Precautionary Statements A

Avoid release to the environment.

Supplemental Hazard Information (EU) Contact with acids liberates toxic gas.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ferrous sulphide	1317-37-9 215-268-6		>95%	Aquatic Acute 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. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. Unless contact has been slight OBTAIN MEDICAL ATTENTION
Inhalation	Remove from exposure. If material has reacted with an acid to form, sulphur dioxide, seek immediate medical assistance.
Ingestion	Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION.
Personal protection for first aiders	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

May evolve toxic fumes if involved in a fire.

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, pr	otective equipment and emergency procedures
Personal Protection	Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.
6.2 Environmental precaution	ons
Enviromental	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 fo	r 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.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Keep well separated from acids.

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	(8hr TWA)	Short Tern	n 15min period)
Ferrous sulphide	1317-37-9	>95%	-	1.0 mg/m-3	-	-

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to reduce dust concentrations to a minimum.
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	Grey to brown-black lumps or powder
Odour	Characteristic.
pН	13 @ 20°C solution.
Boiling Point	Not available
Melting Point	50°C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	1.4270
Water Solubility	18.6%

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 reactions
- No data available.
- **10.4** Conditions to Avoid Avoid contact with acids.
- **10.5** Incompatable Materials Acids.
- **10.6** Hazardous Decomposition Decomposes to form toxic fumes of sulphur dioxide and very toxic hydrogen sulphide. Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Contact with the solid or dust will be irritating to the eyes.
Skin	Contact with the solid or dust will be irritating to the eyes.
LD50 Skin	Not available
Ingestion	Ingestion may result in formation of toxic sulphur dioxide.
LD50 Oral	Not available
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	Data for soluble sulphides in general: Toxic to aquatic organisms : LDlo for fish 3mg/l. Toxic hydrogen sulphide may form even in dilute acidic environments.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not 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 & 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	3077
14.2	Proper Shipping Name	Environmentally hazardous substance, solid, N.O.S. (Iron sulphide)
14.3	Transport classes	
	UN classification	9
	Subsidiary hazard(s)	None
	Transport category	3
	ADR Hazard ID	90
	Tunnel Restriction Code	E
	Single packs and combination packages containing inner packs of up to 5L or 5Kg are excluded from regulation (ADR 2.2.9.1.10, IMDG code 2.10.3).	
14.4	Packing Group	III
14.5	Environment hazards	Marine pollutant.
14.6	Special precautions for user	No special precautions required.
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	Hazard to aquatic environment, category 1
Signal word	Warning
Hazard Pictograms	¥2
Hazard Statements	H400 Very toxic to aquatic life.
Precautionary Statements	P273 Avoid release to the environment.
Supplemental Hazard Information (EU)	EUH031
	Contact with acids liberates toxic gas.

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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