Vickers Laboratories Ltd - Safety Data Sheet

1411

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

Revision: 1.2 Revision date: 16 April 2021 Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1411

Product Name SODIUM DITHIONITE pure

CAS Number 7775-14-6

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

Na S 0 =174.10

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) 11

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Self heating, category 1 H251: Self-heating; may catch fire. Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Self-heating; may catch fire. Harmful if swallowed.

Precautionary Statements Keep cool. Protect from sunlight. Wear protective gloves / protective clothing / eye protection. Store away from

other materials.

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)		CLP Classification (1272/2008/CE)
Sodium dithionite	7775-14-6	231-890-0		87%	Self-heat. 1,Acute Tox. 4 (O)
Sodium carbonate	497-19-8	207-838-8		13%	Eye Irrit. 2

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. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. If exposure to toxic fumes has occurred OBTAIN IMMEDIATE MEDICAL

ATTENTION.

Ingestion If conscious wash out mouth thoroughly with water and give water or milk to drink. Do not induce vomiting.

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 Dry powder fire extinguisher.

Unsuitable Media Water.

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, protective equipment and emergency procedures

Personal Protection Avoid breathing dust-wear respiratory protective equipment. Ensure no contact with water, acids or other aqueous

solutions is possible. However if contact with acid is possible, use full protective clothing and breathing

apparatus.

6.2 Environmental precautions

Environmental Presents no major environmental hazard.

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 . Protect against moisture to prevent decomposition and corrosion.

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 Term 15min period)	
	Sodium dithionite	7775-14-6	87%	-	-	-	-
Ì	Sodium carbonate	497-19-8	13%	-	-	-	-

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.

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 White free flowing granular material.

Odour Organic sulphur odour.
pH 6 @ 20°C 1%
Boiling Point Not available

Melting Point 52 °C (Decomposition)

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 2.380 Water Solubility 241 g/L

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.

Decomposes on exposure to moist air or water and at temperatures above 60C **10.4** Conditions to Avoid

10.5 Incompatable Materials Reacts with acids liberating very toxic fumes of sulphur dioxide. Strong oxidising agents. Combustible materials.

Toxic fumes of sulphur dioxide. **Hazardous Decomposition**

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or dust may be irritating to the eyes. Skin Contact with the solid or dust may be irritating to the skin.

LD50 Skin >2000 mg/Kg Rat

Harmful if swallowed. Ingestion may result in formation of toxic sulphur dioxide. Ingestion

LD50 Oral 2500 mg/Kg Rat

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. Major hazard is through

inhalation of sulphur dioxide fumes which produce a hard uncontrollable cough. Excessive exposure can lead to

unconsciousness and may prove fatal.

LD50 Inhalation >5.5 mg/L 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

 $COD=210mg/l\ O2/g;\ Aquatic\ toxicity\ 96hr-\ EC50\ Bacteria\ 87mg/l;\ LC50\ Fish\ (Leuciscus\ idus)\ 46-68mg/l\ Daphnia\ magna\ 48hr\ EC50=98mg/l\ ,\ 24hr=120mg/l\ .$ 12.1 Toxicity

LC50 Algal 206.2 mg/L Algae LC50 Crustacea 98.3 mg/L Daphnia

LC50 Fish 62.3 mg/L Ide (leuciscus idus)

12.2 Persistence and

degradability

No data available.

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

Results of PBT & vPvB

assessment

Assessment not required.

Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 1384

14.2 Proper Shipping Name Sodium dithionite

14.3 Transport classes

UN classification 4.2
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 40
Tunnel Restriction Code D/E

14.4 Packing Group II

145 E-----

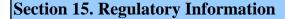
14.5 Environment hazards See section 12.

14.6 Special precautions for

No special precautions required.

usei

14.7 Transport in bulk Not transported in bulk.



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

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

Classification Self heating, category 1; Acute toxicity, category 4 (oral)

Signal word Danger

Hazard Pictograms





Hazard Statements H251, H302

Self-heating; may catch fire. Harmful if swallowed.

Precautionary Statements P235+P410, P280, P420

Keep cool. Protect from sunlight. Wear protective gloves / protective clothing / eye protection. Store away from

other materials.

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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