Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1 Revision date: 16 April 2021
Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1523

Product Name ZINC NITRATE 6H2O pure

CAS Number 10196-18-6

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 Zn(NO₃)₂.6H₂O =297.48

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

Oxidising solid, category 2

Acute toxicity, category 4 (oral)

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 2

H319: Causes skin irritation.

H319: Causes serious eye irritation.

Spec target organ tox - single, category 3 H335: May cause respiratory irritation.
Hazard to aquatic environment, category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May Hazard Statements

cause respiratory irritation. Toxic to aquatic life with long lasting effects.

Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection. Avoid release to the environment. IF ON SKIN: Wash with plenty of soap and water. 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)
Zinc nitrate	10196-18- 6	231-943-8		>98%	Ox. Sol. 2,Acute Tox. 4 (O),Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I),Aquatic Chronic 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. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure.

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

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. Mixtures with combustible materials are flammable.

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 Presents no major hazards.

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.

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 (8hr TWA)		Short Term 15min period)		
Zinc nitrate	10196-18-6	>98%	-	-	-	-	

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 Colourless crystals or white powder.

Odour No specific odour. pH 5 @ 20°C solution.

Boiling Point Not available Melting Point 36°C

Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable
Explosive Properties No.

Oxidising Properties Yes.

Vapour Pressure Not applicable

Relative Density 2.0600

Water Solubility 50%

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

10.4 Conditions to Avoid

Do not allow to impregnate wood or other organic materials.

10.5 Incompatable Materials Combustible materials. Many organic compounds.

10.6 Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye irritation.

Skin The solid and solutions will be irritating to the skin.

LD50 Skin Not available

Ingestion Low order of acute toxicity.

LD50 Oral 1190mg/kg Rat

Inhalation May cause respiratory irritation.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity No information is available.

Mutagenicity No information is available.

Reproductive Effects No information is available.

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 7.8mg/l Fish (96 hours)

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 not required.

assessment

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 151414.2 Proper Shipping Name Zinc nitrate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for

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 Oxidising solid, category 2; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye

damage/irritation, category 2; Spec target organ tox - single, category 3; Hazard to aquatic environment, category 2

OXIDIZING

Signal word Danger

Hazard Pictograms







Hazard Statements H272, H302, H315, H319, H335, H411

May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May

cause respiratory irritation. Toxic to aquatic life with long lasting effects.

Precautionary Statements P210, P220, P221, P280, P273, P302+P352, P305+P351+P338

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection. Avoid release to the environment. IF ON SKIN: Wash with plenty of soap and water. 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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