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

Product Identifier 0545

> Product Name POTASSIUM NITRITE pure

CAS Number

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

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 Vickers Laboratories Ltd **Supplier**



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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 H272: May intensify fire; oxidizer. Acute toxicity, category 3 (oral) H301: Toxic if swallowed. 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 Danger

Hazard Pictograms





Ref: 0545



Hazard Statements May intensify fire; oxidizer. Toxic if swallowed. Very toxic to aquatic life.

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.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	. REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Potassium Nitrite	7758-09-0 231-832-	1	>97%	Ox. Sol. 2,Acute Tox. 3 (O),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. 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. Mixtures with combustible materials are flammable. Mixtures with

finely divided combustible materials can react explosively.

5.3 Advice for firefighters

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 (8hr TWA)		Short Term 15min period)	
Potassium Nitrite	7758-09-0	>97%	=	-	-	-

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

8.2 Exposure controls

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 Colourless to off-white crystals or crystalline solid

Odour No specific odour. pН 7-10 @ 50g/l **Boiling Point** Not available 407°C Melting Point Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Not applicable Auto Ignition

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable
Relative Density Not available
Water Solubility 2.81 g/l @ 20°C

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 Avoid contact with acids or combustible materials.

10.5 Incompatable Materials Acids: reacts to form poisonous nitrous fumes. Combustible materials. Ammonium salts, phthalic anhydride,

thiosulphates, or urea. Cyanides.

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

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

LD50 Skin Not available

Harmful if swallowed. Repeated small doses cause a fall in blood pressure, rapid pulse, headache and visual Ingestion

disturbances. Larger doses cause nausea, vomiting, cyanosis, collapse and coma.

LD50 Oral

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 Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.

LC50 Algal 215 mg/l Daphnia magna

LC50 Crustacea Not available LC50 Fish 620 mg/l Fish 12.2 Persistence and No data available.

degradability

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 1488

14.2 Proper Shipping Name Potassium nitrite

14.3 Transport classes

UN classification 5.1 Subsidiary hazard(s) None Transport category 2 ADR Hazard ID

Tunnel Restriction Code B/E **14.4 Packing Group** II

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 Oxidising solid, category 2; Acute toxicity, category 3 (oral); Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H272, H301, H400

May intensify fire; oxidizer. Toxic if swallowed. Very toxic to aquatic life.

Precautionary Statements P210, P220, P221, P280

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.

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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