Scientific Laboratory Supplies - Safety Data Sheet

CHE3512

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

Revision: 3.0 Revision date: 26 July 2021 (Replaces revision 2.0 of 28 April 2021) Date printed: 16 September 2024

Section 1. Identification

1.1 Product Identifier CHE3512

Product Name SODIUM PERBORATE 4H2O pure 500g.

CAS Number 10486-00-7

REACH Registration No 01-2119516039-43-XXXX

Molecular Formula Nabo, .4H, 0 =153.86

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 Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

1.4 Emergency Telephone (08:00-17:00) 0115 9821111

(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

Acute toxicity, category 4 (oral)

Acute toxicity, category 4 (inhalation)

H302: Harmful if swallowed.

H332: Harmful if inhaled.

Serious eye damage/irritation, category 1

H318: Causes serious eye damage.

Reproductive toxicity, category 1B H360: May damage fertility or the unborn child.

Spec target organ tox - single, category 3 H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: CHE3512



Hazard Statements May intensify fire; oxidizer. Harmful if swallowed. Harmful if inhaled. May damage fertility or the unborn child.

May cause respiratory irritation. Causes serious eye damage.

Precautionary Statements Obtain special instructions before use. Keep / Store away from clothing / combustible materials. Avoid breathing

dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do and continue rinsing. IF exposed or concerned: Get medical advice/attention.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium perborate	10486-00- 7	239-172-9	01-2119516039-43-XXXX	>97%	Acute Tox. 4 (O), Acute Tox. 4 (I), Eye Dam. 1, Repr. 1B, STOT SE 3 (I)

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. Remove contact lenses if

present and easy to do, continue rinsing. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Take off immediately all contaminated clothing. Wash off skin thoroughly with water. OBTAIN MEDICAL

ATTENTION.

Inhalation Remove from exposure. OBTAIN MEDICAL ATTENTION.

Ingestion Wash out the patients mouth thoroughly with water. If conscious, give 1 pint of water to drink immediately.

OBTAIN MEDICAL ATTENTION.

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 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. Borane/boron oxides, Sodium Oxides

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Use Water spray to help

reduce vapours; but may not prevent ignition in closed spaces 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. Avoid contact with skin. Ensure adequate ventilation. Evacuate area.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil.

6.3 Methods and material for containment and cleaning up

Major Spillage Wet material with water to make it damp. This will prevent dispersal of the dust during disposal. 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 adequate ventilation.

Take off immediately all contaminated clothing. Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in a suitable area for oxidising agents. Do not store on wooden surfaces. Protect against moisture to prevent decomposition. 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)	
Sodium perborate	10486-00-7	>97%	-	-	-	-

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 crystalline powder or granules.

Odour No specific odour.

pH 10-10.4 @ 25°C (10 g/L)

Boiling Point Not available Melting Point 60 °C

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

Oxidising Properties
Vapour Pressure
Relative Density
Water Solubility

Not applicable
Not applicable
Not available
Not available
0.1 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

Violent reactions possible with: All metals. Alkali metals. Heavy metals and their salts. Acids, bases, oxidising Possibility of hazardous

agents and reducing agents.

10.4 Conditions to Avoid No specific conditions. 10.5 Incompatable Materials Strong oxidising agents.

Hazardous Decomposition May produce hazardous fumes if involved in a fire. Borane/boron oxides, Sodium Oxides

reactions

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye damage.

LD50 Skin >2000mg/kg Rabbit

Harmful if swallowed. Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hyperpnoea and Ingestion

convulsions.

LD50 Oral 1200 mg/Kg Rat

Inhalation May cause respiratory irritation. Harmful if inhaled.

LD50 Inhalation 1.6 mg/L Rat **TCLo** Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects May damage fertility or the unborn child.

Section 12. Ecological

12.1 Toxicity No data available.

> LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available

12.2 Persistence and Readily bio-degraded in the environment.

degradability

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

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. Dispose of via an authorised waste disposal contractor to an approved waste

disposal site, observing all local and national regulations.

Contaminated Packaging Dispose of in the same way as the unused product.

Section 14. Transport Information

14.1 UN Number 1479

14.2 Proper Shipping Name Oxidising solid, N.O.S. (Sodium

peroxometaborate tetrahydrate)

14.3 Transport classes

UN classification 5.1 Subsidiary hazard(s) None 3 Transport category 50 ADR Hazard ID **Tunnel Restriction Code** Е 14.4 Packing Group Ш

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.



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

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

Classification Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 1;

Reproductive toxicity, category 1B; Spec target organ tox - single, category 3

Signal word Danger

Hazard Pictograms







OXIDIZING

Hazard Statements H272, H302, H332, H360, H335, H318

May intensify fire; oxidizer. Harmful if swallowed. Harmful if inhaled. May damage fertility or the unborn child.

May cause respiratory irritation. Causes serious eye damage.

Precautionary Statements P201, P220, P261, P280, P305+P351+P338, P308+P313

> Obtain special instructions before use. Keep / Store away from clothing / combustible materials. Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do and continue rinsing. IF exposed or concerned: Get medical advice/attention.

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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