

Section 1. Identification**1.1 Product Identifier** 2530

Product Name SODIUM PERCHLORATE SOLUTION 60% w/w

CAS Number Mixture

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.

1.2 Relevant identified uses of the substance or mixture & 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 (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567**

Oxidising liquid, category 1	H271: May cause fire or explosion; strong oxidizer.
Acute toxicity, category 4 (oral)	H302: Harmful if swallowed.
Serious eye damage/irritation, category 2	H319: Causes serious eye irritation.
Spec target organ tox - repeat, category 2	H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements**Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567**

Signal word Danger

Hazard Pictograms



Hazard Statements	May cause fire or explosion; strong oxidizer. Harmful if swallowed. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements	Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. 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

3.2 Mixtures

Component	CAS No.	EC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium perchlorate monohydrate	7791-07-3	231-511-9		60%	Ox. Sol. 1, Acute Tox. 4 (O), Eye Irrit. 2, STOT RE 2

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing.
Skin	Take off immediately all contaminated clothing. Rinse skin with water/shower.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	If conscious, give 1 pint of water to drink immediately. Get medical advice/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	Water spray, alcohol resistant foam, dry powder or carbon dioxide.
Unsuitable Media	Consider what other flammable materials are present and act accordingly.

5.2 Special hazards arising from the substance or mixture

Hazards	May cause or intensify fire; oxidizer. May evolve toxic fumes if involved in a fire. Hydrogen chloride gas, Sodium Oxides.
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5.3 Advice for firefighters

Advice for firefighters	Fire-fighters should wear self-contained breathing apparatus. Use Water spray to help reduce vapours; but may not prevent ignition in closed spaces Prevent fire extinguishing water/run-off from contaminating surface water or the ground water system.
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Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection	Evacuate area immediately. Avoid breathing mist/vapours/spray. Avoid contact with skin and eyes. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Use approved personal protective equipment.
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6.2 Environmental precautions

Environmental	Do not allow product to reach sewage system.
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6.3 Methods and material for containment and cleaning up

Major Spillage	Contain and absorb on inert material. Sweep up and transfer to a suitable container for disposal. Wash area down with detergent and copious amounts of water.
Minor Spillage	Wash area down with detergent and 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

Keep away from heat. Keep away from sources of ignition including static discharge. Wear suitable protective clothing, gloves and eye/face protection. Wash thoroughly after handling. Remove contaminated clothing immediately and wash before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Store in a suitable area for oxidising agents. Keep container tightly closed. Keep container in well ventilated place & away from sources of ignition including static discharge. 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 perchlorate monohydrate	7791-07-3	60%	-	-	-	-

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

8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to reduce dust concentrations to a minimum. In case of inadequate ventilation wear respiratory protection.
Hand Protection	Use nitrile gloves or PVC gauntlets.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Wear appropriate protective clothing.
Special Hazards	No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid
Odour	Odourless.
pH	4.5 - 7.0 @25°C
Boiling Point	Aqueous solution
Melting Point	Aqueous solution
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	Not applicable
Oxidising Properties	Oxidising liquid, category 1.
Vapour Pressure	Not applicable
Relative Density	1.6000
Water Solubility	Completely miscible in water.

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	Risk of ignition or formation of inflammable gases or vapours with: Light metals, organic substances, Metals, Alcohols, Fluorine, Halogenated Hydrocarbons, semimetallic oxides, polyvinyl chloride, sulfur, acids. Violent reactions possible with: Cyanides. Risk of explosion with: ammonium compounds, reducing agents, magnesium, powdered metals, combustible substances.
10.4	Conditions to Avoid	Keep away from heat.
10.5	Incompatible materials	Iron, Mild steel
10.6	Hazardous Decomposition Products	May evolve toxic fumes if involved in a fire. Hydrogen chloride gas, Sodium Oxides.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Irritating to eyes.
Skin	No data available.
LD50 Skin	Not available
Ingestion	Harmful if swallowed. Prolonged or repeated exposure can cause damage to the Thyroid.
LD50 Oral	833.3 mg/Kg (ATE)
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	No data available.
Other Information	To the best of our knowledge, the chemical, physical, & toxicological properties have not been thoroughly investigated.

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 degradability	Soluble in water. Persistence is unlikely based on available information.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	Will likely be mobile in the environment due to its water solubility.
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	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	3211
14.2 Proper Shipping Name	Perchlorates, inorganic, aqueous solution, N.O.S. (Sodium perchlorate solution)
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 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 substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Classification Oxidising liquid, category 1; Acute toxicity, category 4 (oral); Serious eye damage/irritation, category 2; Spec target organ tox - repeat, category 2

Signal word Danger

Hazard Pictograms



Hazard Statements H271, H302, H319, H373
May cause fire or explosion; strong oxidizer. Harmful if swallowed. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements P210, P220, P264, P280, P301+P312, P305+P351+P338
Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. 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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