

Revision: 1.2

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## Section 1. Identification

### 1.1 Product Identifier 1646

Product Name	SODIUM METAPERIODATE pure
CAS Number	7790-28-5
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	$\text{NaIO}_3$ =213.89

### 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



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](mailto:safety@viclabs.co.uk)  
Website [www.viclabs.co.uk](http://www.viclabs.co.uk)

### 1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811 (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

Oxidising solid, category 1  
Skin corrosion/irritation, category 1C  
Spec target organ tox - repeat, category 1  
Hazard to aquatic environment, category 1

H271: May cause fire or explosion; strong oxidizer.  
H314: Causes severe skin burns and eye damage.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.

### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



**Hazard Statements** May cause fire or explosion; strong oxidizer. Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.

**Precautionary Statements** Keep / Store away from clothing / combustible materials. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Store locked up. 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 ON SKIN:** Wash with plenty of soap and water. Avoid release to the environment.

## Section 3. Composition

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium metaperiodate	7790-28-5	232-197-6		>99%	Ox. Sol. 1, Skin Corr. 1C, STOT RE 1, 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 <b>OBTAIN MEDICAL ATTENTION.</b>
Skin	Thoroughly wash off skin with soap and water.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available.
Ingestion	Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, <b>OBTAIN MEDICAL ATTENTION.</b>
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	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.
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### 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.
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## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection	Use approved personal protective equipment. Do not allow general use of area until it is safe to do so.
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## 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 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 . 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 metaperiodate	7790-28-5	>99%	-	-

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 White crystalline powder or granules.  
Odour No specific odour.  
pH Not applicable  
Boiling Point Not available  
Melting Point 270 °C  
Flash Point Not applicable  
Upper Flammable Limit Not applicable  
Lower Flammable Limit Not applicable  
Auto Ignition 262 °C  
Explosive Properties Can form explosive mixtures with organic matter.  
Oxidising Properties Yes.  
Vapour Pressure Not applicable  
Relative Density 3.8650  
Water Solubility 80 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 reactions	No data available.
10.4	Conditions to Avoid	Decomposes violently on heating.
10.5	Incompatible Materials	Strong reducing agents, Organic materials, Powdered metals.
10.6	Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	Risk of serious damage to eyes.
Skin	Causes burns.
LD50 Skin	Not available
Ingestion	Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hyperpnoea and convulsions.
LD50 Oral	Not available
Inhalation	Causes respiratory tract irritation.
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.
Other Information	The substance is classified as a specific target organ toxicant, repeated exposure, category 1 - thymus gland

## Section 12. Ecological

12.1	Toxicity	Very toxic to aquatic life.
	LC50 Algal	Not available
	LC50 Crustacea	0.18mg/l Daphnia magna (48 hours)
	LC50 Fish	>0.17mg/l Rainbow trout (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	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	1479
14.2 Proper Shipping Name	Oxidizing solid, N.O.S. (Sodium periodate)
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)

Classification Oxidising solid, category 1; Skin corrosion/irritation, category 1C; Spec target organ tox - repeat, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H271, H314, H372, H400  
May cause fire or explosion; strong oxidizer. Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.

Precautionary Statements P220, P210, P405, P280, P305+P351+P338, P302+P352, P273  
Keep / Store away from clothing / combustible materials. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Store locked up. 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 ON SKIN: Wash with plenty of soap and water. Avoid release to the environment.

### 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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