# Scientific Laboratory Supplies - Safety Data Sheet

CHE2778

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

Revision: 2.1 Revision date: 16 April 2021 Date printed: 16 September 2024

**Section 1. Identification** 

1.1 Product Identifier CHE2778

Product Name PERIODIC ACID pure 100g.

CAS Number 10450-60-9

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 H<sub>5</sub> IO<sub>6</sub> =227.94

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

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

Oxidising solid, category 1 H271: May cause fire or explosion; strong oxidizer. Skin corrosion/irritation, category 1C H314: Causes severe skin burns and eye damage.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1 H410: Very toxic to aquatic life with long lasting effects.

#### 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. Very toxic to aquatic life

with long lasting effects.

Precautionary Statements Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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)
Periodic acid	10450-60-	233-937-0		98%	Ox. Sol. 1,Skin Corr. 1C,Aquatic Acute 1,Aquatic Chronic 1
	9				

### 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. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

OBTAIN MEDICAL ATTENTION URGENTLY.

Inhalation Remove from exposure. 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. If conscious place in a sitting position.

OBTAIN MÉDICAL ATTENTION URGÉNTLY.

If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY. Ingestion

Personal protection for first 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 Contact with combustible material may cause a fire. May evolve toxic fumes if involved in a fire.

#### 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 Avoid breathing dust. Use approved personal protective equipment. Do not allow general use of area until it is

safe to do so.

### 6.2 Environmental precautions

Enviromental Keep non-neutralised 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 Notify the Environmental Agency and local Environmental Health

Officer if major spillage occurs.

Minor Spillage Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. 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 vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations to a minimum.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Keep well separated from acids, metals, explosives, organic peroxides and ignitable 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)	
Periodic acid	10450-60-9	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.

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 Odourless. pН 1 @ 20°C **Boiling Point** Not available Melting Point 125°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable

Explosive Properties Not explosive as a single substance.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable
Relative Density Not available
Water Solubility Very soluble 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

Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Reducing agents.

Reducing agents. Alkalis. Many organic compounds. Combustible materials. 10.5 Incompatable Materials

Hazardous Decomposition Decomposes to form toxic fumes of iodides.

Products

# Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye damage.

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

LD50 Skin Not available

Ingestion Ingestion of large amounts will cause gastrointestinal irritation.

LD50 Oral Not available

Inhalation Prolonged exposure to dust or fume concentrations above the occupational exposure limits may produce irritation

of the eyes, nose, throat and respiratory tract.

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.

1.1 mg/L Algae (72 hours) LC50 Algal

LC50 Crustacea 0.18 mg/L Daphnia magna (48 hours) LC50 Fish 0.17 mg/L Rainbow Trout (96 hours)

12.2 Persistence and No data available.

degradability

No data available.

12.3 Bioaccumulative potential 12.4 Mobility in soil No data available.

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** 1479

**14.2 Proper Shipping Name** Oxidizing solid, N.O.S. (Periodic acid)

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

OXIDIZING AGENT 5.1

**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 1; Skin corrosion/irritation, category 1C; Hazard to aquatic environment, category 1;

Hazard to aquatic environment, category 1

Signal word Danger

**Hazard Pictograms** 







Hazard Statements H271, H314, H410

May cause fire or explosion; strong oxidizer. Causes severe skin burns and eye damage. Very toxic to aquatic life

with long lasting effects.

Hazard Statements (Packs

of 500ml/g or less)

H272, H314

May intensify fire; oxidizer. Causes severe skin burns and eye damage.

Hazard Statements (Packs

of 100ml/g or less)

H272, H314

May intensify fire; oxidizer. Causes severe skin burns and eye damage.

Precautionary Statements P280, P260, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do and continue rinsing.

Precautionary Statements (Packs of 500ml/g or less)

P280, P260, P301+P330+P331, P305+P351+P338

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses if present and easy to do and continue rinsing.

Precautionary Statements (Packs of 100ml/g or less)

P280, P305+P351+P338

Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

# 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.

Revision number: 2.1 (Supercedes revision 2.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 16 September 2024

Copyright: 2024 Scientific Laboratory Supplies