

A MATERIAL SAFETY DATA SHEET

Periodic Acid

1.1 Product Identifiers Identifiers:

Product Name : Periodic Acid
CAS No : 10450-60-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Supplier: Infinium Pharmachem Pvt. Ltd. (AN ISO 9001:2008 CERTIFIED CO.)
38, G.I.D.C, Sojitra

Dist: ANAND

Gujarat, India

Tel : 0091-2697-234987

Fax : 0091-2697-234987

Email : info@infiniumpharmachem.com

Synonyms : PERIODIC ACID, DIHYDRATE; ORTHOPERIODIC ACID; PARA-PERIODIC ACID; periodic; periodic acid (H₅IO₆); Periodic acid wwaq soln; PERIODIC ACI; PERIODIC ACID

CAS No. : 10450-60-9

Molecular Weight : 227,94 g/mol

Chemical Formula : H₅ IO₆

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Oxidizing solids (Category 2)

Skin corrosion (Category 1B)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Contact with combustible material may cause fire. Causes burns.

3.2 Label elements

Labeling according Regulation (EC) No 1272/2008



Pictogram

Signal word Danger

Hazard statement(s)

H272 May intensify fire; oxidiser

H314 Causes severe skin burns and eye damage

Precautionary statement(s)

P220 Keep/Store away from clothing/ combustible materials.

P280 Wear protective gloves/ protective clothing/ eye protection/
face protection

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard None

Statements

According to European Directive 67/548/EEC as amended.



Hazard symbol(s)

R-phrase(s)

R 8 Contact with combustible material may cause fire

R34 Causes burns.

S-phrase(s)

S17 Keep away from combustible material.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3.3 Other hazards- none

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most Important symptoms & efforts, both acute and delayed

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5.1 Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hydrogen iodide

5.3 Advice for firefighters

Wear self contained breathing apparatus for fighting if necessary.

5.4 Further Information

Use water spray to cool unopened containers.

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.



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7.1 Precautions for safe Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition

- No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

7.2 Conditions for safe Storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Hygroscopic

7.3 Specific end uses

no data available

8.1 Control parameters

Components with workplace control Parameters.

8.2 Exposure Controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9.1 Information on Basic physical & chemical properties

a) Appearance	Form: crystalline
	Colour: white
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/freezing Point	Melting point/range: 122 °C - lit.
f) Initial boiling point and Boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower Flammability or explosive limits	no data available
k) Vapor pressure	no data available
l) Vapor density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol /water	no data available
p) Auto ignition Temperature	no data available
q) Decomposition Temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	The substance or mixture is classified as oxidizing with the category 2.

9.2 Other safety Information

no data available



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10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

hygroscopic

10.5 Incompatible materials

Strong reducing agents, Powdered metals, Strong bases, Dimethyl sulfoxide. (DMSO)

10.6 Hazardous decomposition products

Other decomposition products - no data available

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion May be harmful if swallowed. Causes burns.

Skin May be harmful if absorbed through skin. Causes skin burns.

Eyes Causes serious eye irritation.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Additional Information

RTECS: Not available

12.1 Persistence and degradability

no data available

12.2 Bioaccumulative potential

no data available

12.3 Mobility in soil

no data available

12.4 Results of PBT and vPvB assessment

Not available



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12.5 Toxicity

Not available

12.6 Other adverse effects

Not available

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - 3085 IMDG: - 3085 IATA: - 3085

14.2 UN proper shipping name

ADR/RID : OXIDIZING SOLID, CORROSIVE, N.O.S. (Orthoperiodic acid)

IMDG : OXIDIZING SOLID, CORROSIVE, N.O.S. (Orthoperiodic acid)

IATA : Oxidizing solid, corrosive, n.o.s. (Orthoperiodic acid)

14.3 Transport hazard class (es)

ADR/RID: 5.1 (8) IMDG: 5.1 (8) IATA: 5.1 (8)

14.4 Packaging group

ADR/RID: II IMDG: II IATA:II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

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Disclaimer:

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