

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Periodic Acid

CAS number 10450-60-9

Synonyms Orthoperiodic acid; Iodic Acid; p-Periodic acid; para-Periodic acid

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

Identified uses Laboratory chemicals.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

# 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing SolidsCategory 1Skin Corrosion/IrritationCategory 1CSerious Eye Damage/Eye IrritationCategory 1Specific Target Organ Toxicity (single exposure)Category 3

Target Organ(s) - Respiratory system

Laballey.com Page 1 of 10

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements May cause fire or explosion; strong oxidizer.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statements

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep/Store away from clothing/other combustible materials. Take any precaution to avoid mixing with combustibles. Wear fire/flame resistant/retardant clothing.

Response: Immediately call a POISON CENTER or doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Rinse contaminated clothing and skin immediately with plenty of water before removing clothes. Rinse skin with water/shower. Wash contaminated clothing before re-use.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Fire: In case of major fire and large quantities, evacuate area. Fight fire remotely due to the risk of explosion. In case of fire, use CO2, dry chemical, or foam for extinction.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an approved waste disposal place.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

#### **SECTION 3: Composition/information on ingredients**

Laballey.com Page 2 of 10

#### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Periodic acid	Orthoperiodic acid; Iodic Acid; p- Periodic acid; para-Periodic acid	10450-60-9	> 99%

#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Call a

physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

In case of skin contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Call a physician immediately.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required. Keep eye wide open while

rinsing.

Immediate medical attention is required. Do NOT induce vomiting. Drink

plenty of water. Never give anything by mouth to an unconscious person.

# 4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance; immediate medical attention is required. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2), dry chemical, dry sand,

alcohol-resistant foam.

**Unsuitable extinguishing media**No information available.

Laballey.com Page 3 of 10

# 5.2 Specific hazards arising from the substance or mixture

The product causes burns of eyes, skin, and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. Thermal decomposition can lead to release of irritating gases and vapors. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from fire-fighting to enter drains or water courses. Hazardous Combustion Products: Hydrogen iodide.

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
3	0	2	OX

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Soak up with inert absorbent material.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

Laballey.com Page 4 of 10

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed, seek immediate medical assistance. Keep away from clothing and other combustible materials.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Do not store near combustible materials and other incompatible materials.

# Incompatibilities

Organic materials, strong oxidizing agents, strong bases, reducing agents, combustible materials.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

# Personal protective equipment

#### **Eye/face protection**

Tight sealing safety goggles. Face protection shield.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

Laballey.com Page 5 of 10

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Off-white
Odor Odorless

Boiling Point/Range No information available

Evaporation Rate Not applicable

Flammability (solid) No information available

Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available

Vapor Density Not applicable

Density No information available

Solubility Soluble in water
Partition coefficient; No data available

n-octanol/water

Autoignition Temp No information available Decomposition Temp No information available

Viscosity Not applicable
Molecular Formula H5 I O6
Molecular Weight 227.94 g/mol

VOC Content(%) No information available

Oxidizing properties Oxidizer

# 9.2 Other safety information

No information available.

#### **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Known reactive hazard.

Laballey.com Page 6 of 10

#### 10.2 Chemical stability

Stable under recommended storage conditions. Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic.

# 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Incompatible products, excess heat, combustible material, exposure to moist air or water.

# 10.5 Incompatible materials

Organic materials, strong oxidizing agents, strong bases, reducing agents, combustible material.

# 10.6 Hazardous decomposition products

Hydrogen iodide.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Product Information, Component Information**

# **Acute toxicity**

No acute toxicity available for this product.

#### Skin corrosion/irritation

Causes burns by all exposure routes.

#### Serious eye damage/eye irritation

Causes burns by all exposure routes.

#### Respiratory or skin sensitization

Causes burns by all exposure routes.

#### Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Periodic acid	10450-60-9	Not listed				

#### Specific target organ toxicity - single exposure

Respiratory system.

# Specific target organ toxicity - repeated exposure

None known.

Laballey.com Page 7 of 10

# Reproductive toxicity

No information available.

#### **Chronic effects**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

# 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

Likely mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

Laballey.com Page 8 of 10

DOT (US)

UN-no UN3085

Proper Shipping Name Oxidizing solid, corrosive, n.o.s.

Hazard Class 5.1 Subsidiary Hazard Class 8 Packing Group II

**IMDG** 

UN-no UN3085

Proper Shipping Name Oxidizing solid, corrosive, n.o.s.

Hazard Class 5.1 Subsidiary Hazard Class 8 Packing Group II

**IATA** 

UN-no UN3085

Proper Shipping Name Oxidizing solid, corrosive, n.o.

Hazard Class 5.7 Subsidiary Hazard Class 8 Packing Group II

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not applicable.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Laballey.com Page 9 of 10

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

#### **Safe Drinking Water Act**

Not regulated.

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

# **US** state regulations

**US. Massachusetts RTK - Substance List** 

Not listed.

# US. New Jersey Worker and Community Right-to-Know Act Not listed.

# US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

#### **California Proposition 65**

Not listed.

# **SECTION 16: Other information**

Issue date: 09/16/2024

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Laballey.com Page 10 of 10