

SAFETY DATA SHEET

Product Name: 1% Periodic Acid

Date: May 18, 2021

Page 1 of 5



anatech[®]
A Division of Cancer Diagnostics, Inc.

SECTION 1: IDENTIFICATION

Product: 1% Periodic Acid

Product number: 886

Synonyms: None

Recommended use: Laboratory chemical

Company

Cancer Diagnostics-Anatech Division	24-hour Transportation Emergency	800.424.9300 CHEMTREC
1020 Harts Lake Road	Product Technical Information	800.262.8324, M-F, 8 AM-5 PM, ET
Battle Creek, MI 49037, USA	Supplier General Contact	800.262.8324, M-F, 8 AM-5 PM, ET

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of substance

Skin corrosion/irritation (Category 1A)

Eye damage/irritation (Category 1)

Signal word

Danger

Hazard statement

Causes severe skin burns.

Causes serious eye damage.

Pictogram



Precautionary statements

Prevention

Wash exposed areas thoroughly after handling.

Do not breathe mist/vapors/spray.

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

Response

Immediately call poison center or doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin/hair: Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment: See Section 4 of this SDS.

Storage

Store locked up.

Disposal

Dispose of contents/containers in accordance with governmental regulations.

Hazards not otherwise classified

None as defined under 29 CFR 1900.1200.

SAFETY DATA SHEET

Product Name: 1% Periodic Acid

Date: May 18, 2021

Page 2 of 5



anatech[®]
A Division of Cancer Diagnostics, Inc.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS#	Concentration (w/v)
Periodic acid	10450-60-9	1%

SECTION 4: FIRST-AID MEASURES

Description of first-aid measures

Inhalation	Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.
Eye	Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
Skin	Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. Consult a physician.
Ingestion	Call a poison center immediately.

Important symptoms, acute and delayed

Causes severe skin irritations.

Causes serious eye damage.

Ingestion is likely to cause adverse effects on gastrointestinal tract.

Recommendations for immediate medical care and special treatment

See listed first-aid procedures. No information available for special treatment. Treat according to symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media

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

Specific hazards arising from the product

Hydrogen iodide.

Special protective equipment/precautions for fire-fighters

Firefighters may wear self-contained breathing apparatus if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.

Avoid contact with skin and eyes.

Protective equipment

Wear protective gloves, impermeable aprons and splash-proof goggles.

Emergency procedures

See information in sub-section above.

Methods and materials for containment and cleanup

Contain and soak up spill with inert absorbent material.

Discard absorbents and other contaminated solids in a suitable trash receptacle.

Dispose absorbents and other contaminated solids as a hazardous waste.

Wash contaminated area with soap and water.

SAFETY DATA SHEET

Product Name: 1% Periodic Acid

Date: May 18, 2021

Page 3 of 5



anatech[®]
A Division of Cancer Diagnostics, Inc.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes.

Avoid inhalation of vapors.

Wear protective gloves, impermeable aprons and splash-proof goggles.

Conditions for safe storage including incompatibilities

Keep containers tightly closed.

Store at room temperature.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Chemical name	CAS#	Exposure Limit	Value
Periodic acid	10450-60-9	None established	

Appropriate engineering controls

Handle in accordance with good laboratory practices.

Personal protective measures

Respiratory protection	When risk assessment shows one is necessary, wear respirator with inorganic acid cartridges.
Eye protection	Use splash-proof goggles. Wear face shield if splashing hazard exists. An eyewash station must be nearby, no more than 10 seconds away.
Skin protection	Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear liquid
Odor	None
Odor threshold	No data available
pH	2.0-2.5
Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	1.00 at 23°C
Solubility(ies)	Complete in water
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition	No information available
Viscosity	No information available

SAFETY DATA SHEET

Product Name: 1% Periodic Acid

Date: May 18, 2021

Page 4 of 5



anatech[®]
A Division of Cancer Diagnostics, Inc.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as indicated.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reaction

The product is chemically stable.

Conditions to avoid

No data available.

Incompatible materials

Strong bases, strong reducing agents.

Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure

Skin and eyes.

Symptoms related to physical, chemical and toxicological characteristics

Causes severe skin irritation.

Causes serious eye damage.

Ingestion is likely to cause adverse effects on gastrointestinal tract.

Delayed and immediate effects

See information in sub-section above.

Chronic effects from short and long-term exposure

No information available.

Numerical measures of toxicity

No information available.

Assessment of other acute effects

No information available.

Carcinogenicity

None as defined by 29 CFR 1900.1200.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

SAFETY DATA SHEET

Product Name: 1% Periodic Acid

Date: May 18, 2021

Page 5 of 5



anatech[®]
A Division of Cancer Diagnostics, Inc.

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Proper waste disposal is the generator's responsibility. Follow federal, state (provincial) and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (USA) and IATA

Not regulated as a dangerous good.

Marine pollutant

No information available.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is considered hazardous in accordance with 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA (National Fire Protection Association) Rating

General note: The ratings provide information to emergency personnel on the fire hazards associated with the chemical. It is not descriptive of hazards under normal conditions of occupational use.

Health	3	Materials that, under emergency conditions, can cause serious or permanent injury.
Flammability	0	Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
Instability	0	Materials that in themselves are normally stable, even under fire conditions.

Disclaimer

The information in this SDS was obtained from sources deemed reliable. However, the information is provided without any warranty, expressed, or implied, regarding its correctness. Some information presented and conclusions drawn may be from sources other than direct test data on the substance itself. It is the user's responsibility to determine suitability of the product for his/her own use, and to assure proper use and disposal of it to protect the safety and health of employees and the protection of the environment.

Date of preparation

May 18, 2021, Reviewed May 20, 2025