



**Safety Data Sheet**  
**Periodic Acid (10-50%) Solution**

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**SECTION 1: Identification**

Product name Periodic Acid (10-50%) Solution

Product number PERX-100M, 500M, 1L  
Brand Hurstchem

**Recommended use of the chemical and restrictions on use**  
Laboratory Reagent

**Supplier's details**

Name Hurst Scientific  
Address 2/36 Hensbrook Loop  
6112 Forrestdale WA  
Australia  
  
Telephone 1300 778 068  
email sales@hurstscientific.com.au

**Emergency phone number**

Australian Poisons Information Centre 131 126  
Australian Emergency Services 000

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**SECTION 2: Hazard identification**

**General hazard statement**

Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

**GHS classification in accordance with: Model WHS Regulations 2016**

- Skin corrosion/irritation, Cat. 1B

**GHS label elements, including precautionary statements**

**Pictograms**

# Safety Data Sheet

## Periodic Acid (10-50%) Solution



1. Corrosion

### Signal word

**Danger**

### Hazard statement(s)

H314

Causes severe skin burns and eye damage

### Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P264

Wash ... thoroughly after handling.

P280

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

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/doctor/...

P321

Specific treatment (see ... on this label).

P363

Wash contaminated clothing before reuse.

P405

Store locked up.

P501

Dispose of contents/container to ...

### Other hazards which do not result in classification

Classified as a Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

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## SECTION 3: Composition/information on ingredients

### Hazardous components

#### 1. Water

Concentration

Balance

CAS no.

7732-18-5

#### 2. Periodic acid

Concentration

10 - 50 %

CAS no.

10450-60-9

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

If inhaled

Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases. Do not use mouth to mouth technique.

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In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. Seek medical attention.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. Seek immediate medical attention.
If swallowed	DO NOT induce vomiting. Rinse mouth out with water. Seek immediate medical attention. Do not attempt to neutralise.

#### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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## SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Dry chemical, water spray, fog or Carbon Dioxide.

#### Specific hazards arising from the chemical

Toxic gases may evolve.

#### Special protective actions for fire-fighters

Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

#### Further information

Hazchem code 2X

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## SECTION 6: Accidental release measures

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

Remove all sources of ignition. Wear appropriate protective clothing. Ensure adequate ventilation and avoid contact with skin and eyes. If possible contain the spill. Evacuate all unnecessary personnel.

#### Methods and materials for containment and cleaning up

Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Do not contaminate drains or waterways.

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## SECTION 7: Handling and storage

#### Precautions for safe handling

Use only in an adequately ventilated area. Avoid breathing in mists or vapours. Wear appropriate protective clothing to avoid any personal contact and practice good personal hygiene. Repeated or prolonged exposure should be avoided.

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

Store in a cool, dry, well-ventilated area out of direct sunlight. Avoid heat, sparks, flames and other ignition sources. Store away from incompatibles. Keep containers tightly closed when not in use.

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## SECTION 8: Exposure controls/personal protection

#### Individual protection measures, such as personal protective equipment (PPE)

##### Respiratory protection

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Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

#### Respiratory protection

National exposure standards	Not available for this product.
Biological Limit Values	Not available for this product.
Engineering Controls	Ensure adequate ventilation is provided.
Personal Protective Equipment	Safety glasses or goggles, chemical-resistant gloves, and laboratory coat.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colourless liquid
Colour	Clear
Odor	Slight odour
Melting point/freezing point	Not available
Boiling point or initial boiling point and boiling range	Not available
Flammability	Non-flammable
Lower and upper explosion limit/flammability limit	Not applicable
pH	Acidic
Solubility	Soluble
Vapor pressure	Not available
Density and/or relative density	1.15
Relative vapor density	Not available

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## SECTION 10: Stability and reactivity

### Reactivity

Non-reactive under recommended conditions for use and storage.

### Chemical stability

Stable under recommended conditions for use and storage.

### Possibility of hazardous reactions

Polymerisation will not occur.

### Conditions to avoid.

Temperature extremes, open flames, ignition sources, incompatibles and direct sunlight.

### Incompatible materials

Strong alkalis, DMSO and oxidising agents.

### Hazardous decomposition products

Toxic/corrosive gases may evolve.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

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No data available.

#### Skin corrosion/irritation

No classification available.

#### Serious eye damage/irritation

Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, permanent damage and blindness.

#### Respiratory or skin sensitization

Can cause burns and irritation, redness, itching, severe pain with resultant tissue destruction.

#### Germ cell mutagenicity

No classification available.

#### Carcinogenicity

Not an IARC listed chemical.

#### Reproductive toxicity

No classification available.

#### Specific target organ toxicity (STOT) - single exposure.

No data available.

#### Specific target organ toxicity (STOT) - repeated exposure.

No data available.

#### Aspiration hazard

No data available.

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## SECTION 12: Ecological information

#### Toxicity

Not available for this product.

#### Persistence and degradability

Not available for this product.

#### Bioaccumulate potential

Not expected to bio-accumulate.

#### Mobility in soil

Not available for this product.

#### Other adverse effects

Do not contaminate drains and waterways.

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## SECTION 13: Disposal considerations

#### Disposal methods

#### Product disposal

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Dispose of in accordance with local authority guidelines.

### Other disposal recommendations

Nil.

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## SECTION 14: Transport information

UN Number	3265
UN Proper Shipping Name	Corrosive Liquid, Acidic, Organic, N.O.S
Transport hazard class(es)	8
Packing group	III

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## SECTION 15: Regulatory information

### Chemical Safety Assessment

- Poison Schedule: Not scheduled.

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## SECTION 16: Other information

### References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Can print: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

### Further information/disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

### Preparation information

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