



SAFETY DATA SHEET

PHOSPHORIC ACID 85%

Infosafe No.: 7EF9D
ISSUED Date : 05/10/2016
ISSUED by: JASOL NEW ZEALAND

CLASSIFIED AS HAZARDOUS

1. IDENTIFICATION

GHS Product Identifier

PHOSPHORIC ACID 85%

Product Code

2181240, 2181230, 2181260, 2181250

Company Name

JASOL NEW ZEALAND

Address

81 Leonard Road
Mt. Wellington Auckland
NEW ZEALAND

Telephone/Fax Number

Tel: +64 9 580 2105

Fax: +64 9 571 4388

Emergency phone number

0800 243 622

Emergency Contact Address

North Island:

81 Leonard Road, Mt. Wellington, Auckland 1060

Phone: +64 9 5802105

Fax: +64 9 5714388

South Island:

105 Rutherford Street, Christchurch 8023

Phone: +64 3 3844433

Fax: +64 3 3844431

(24 hour a day available)

0800 243622

E-mail Address

jasolnzorders@gwf.com.au

Recommended use of the chemical and restrictions on use

Manufacture of superphosphate fertilisers, phosphate salts, detergents. Used as an acid catalyst in making ethylene and purifying hydrogen peroxide. Used in dental cement, process engraving and as an analytical agent. In food and soft drinks for sharp taste, tang as Food Additive 338.

Other Names

Name	Product Code
o-Phosphoric acid, Orthophosphoric acid, Phosphoric acid	

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

6.1D (Oral) - Substance that is acutely toxic

6.1E (Dermal) - Substance that is acutely toxic

8.1A Substance that is corrosive to metals

8.2C Substance that is corrosive to dermal tissue

8.3A Substance that is corrosive to ocular tissue

9.1D Substance that is slightly harmful to the aquatic environment or is otherwise designed for biocidal action

9.3C Substance that is harmful to terrestrial vertebrates

Signal Word (s)

DANGER

Hazard Statement (s)

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H433 Harmful to terrestrial vertebrates.

Precautionary Statement (s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Pictogram (s)

Corrosion, Exclamation mark, Environment

**Precautionary statement – Prevention**

P234 Keep only in original container.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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

Precautionary statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P390 Absorb spillage to prevent material damage.

Precautionary statement – Storage

P405 Store locked up.

P406 Store in corrosive resistant/ container with a resistant inner liner.

Precautionary statement – Disposal

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Phosphoric acid	7664-38-2	85%
Water	7732-18-5	Remainder

4. FIRST-AID MEASURES

First Aid Measures

24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)
New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)
New Zealand Emergency Services: 111

Inhalation

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a hospital or medical centre as soon as possible.

Ingestion

If swallowed, do NOT induce vomiting. Immediately rinse mouth with water, and then provide liquid slowly. Contact the National Poisons Centre at 0800 764 766 (0800 POISON) or +64 3 479 7248 or a doctor (at once). Transport promptly to hospital or medical centre.

Skin

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor. Transport promptly to hospital or medical centre.

Eye contact

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. Urgently seek medical assistance. Transport promptly to hospital or medical centre.

First Aid Facilities

Eye wash facilities and safety shower should be available.

Advice to Doctor

1. Most Important Symptoms and Effects, Both Acute and Delayed:

- Can cause corneal burns.

Airway problems may arise from laryngeal edema and inhalation exposure. Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the desiccating action of the acid on proteins in specific tissues.

2. Immediate Medical Attention and Special Treatment Needed:

- Treat symptomatically.

Treat with 100% oxygen initially. Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling. Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.

Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the desiccating action of the acid on proteins in specific tissues.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Not flammable, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Specific Hazards Arising From The Chemical

Non-flammable material. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.

Hazchem Code

2R

Decomposition Temperature

Not available

Other Information

Advice for firefighters:

Decomposes on heating emitting toxic fumes, including those of oxides of phosphorus. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Slippery when spilt. Avoid accidents, clean up immediately. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation

Methods And Materials For Containment And Cleaning Up

Use absorbent (soil, sand or other inert material). Neutralise with lime or soda ash. Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

Environmental Precautions

Prevent product from entering waterways and drains.

Other Information

Reference to Other Sections:

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children.

WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material.

Conditions for safe storage, including any incompatibilities

Container:

- Keep in original container.

Storage:

- Store in a cool, dry, well ventilated place.
- Store away from foodstuffs.
- Store away from incompatible materials described in Section 10.
- Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Material	TWA	STEL	Peak	
phosphoric acid	1 mg/m ³		Not available	Not available

Appropriate Engineering Controls

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator.

Personal Protective Equipment

Eye / Face:

Safety glasses with side shields, chemical goggles.

Hands:

Chemical protective gloves, e.g. PVC.

Body:

Safety footwear or safety gumboots, e.g. Rubber

Respiratory:

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Liquid

Colour

Clear, colourless

Odour

Odourless

Decomposition Temperature

Not available

Melting Point

21°C

Boiling Point

154°C

Solubility in Water

Miscible

Specific Gravity

1.692 @ 25°C

pH

pH (1% solution): 1.5

pH (as supplied): Not available

Vapour Pressure

Not available

Vapour Density (Air=1)

Not available

Evaporation Rate

Not available

Viscosity

Not available

Volatile Component

15 - 25% (water)

Flash Point

Not applicable

Explosion Limit - Upper

Not applicable

Explosion Limit - Lower

Not applicable

Molecular Weight

Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Reacts with strong alkalis

Chemical Stability

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid

Avoid contact with foodstuffs.

Incompatible materials

Alkalis, oxidising agents, metals.

Hazardous Decomposition Products

Phosphorus oxides.

Possibility of hazardous reactions

Reacts with metals liberating flammable hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled symptoms or effects that may arise are:

Ingestion

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Inhalation

- Breathing in mists or aerosols may produce serious respiratory irritation.
- High concentrations cause inflamed airways and watery swelling of the lungs with oedema.

Skin

- Skin contact with the material may damage the health of the individual; systemic effects may result following absorption
- The material can produce chemical burns following direct contact with the skin.
- The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Eye

- A severe eye irritant. Corrosive to eyes; contact can cause corneal burns.
- Contamination of eyes can result in permanent injury.
- Vapours or mists may be extremely irritating.

Subchronic/Chronic Toxicity

Toxicity data: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Avoid contaminating waterways. May cause long-term adverse effects in the environment.

Persistence and degradability

High.

Mobility

High

Bioaccumulative Potential

Low.

Other Adverse Effects

No further information available.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

This material and its container must be disposed of as hazardous waste.

Waste Disposal

Recycle where possible otherwise ensure that:

- Licenced contractors dispose of the product and its container.
- Disposal occurs at a licenced facility.

14. TRANSPORT INFORMATION

U.N. Number

1805

UN proper shipping name

PHOSPHORIC ACID, SOLUTION

Transport hazard class(es)

8

Sub.Risk

None

Packing Group

III

Hazchem Code

2R

IERG Number

37

UN Number (Sea Transport)

1805

UN Number (Road Transport)

1805

IATA/ICAO Hazard Class

8

IATA/ICAO Packing Group

III

IATA/ICAO Sub Risk

None

LIMITED QUANTITY - Max Net Quantity/Pkge

5L

IMDG UN No

1805

IMDG Hazard Class

8

IMDG Sub. Risk

None

IMDG Pack. Group

III

IMDG Subsidiary Risk

None

IMDG Marine pollutant

No

IMDG EMS

Fire: F-A, Spill: S-B

15. REGULATORY INFORMATION

National and or International Regulatory Information

Phosphoric acid (CAS: 7664-38-2) is found on the following regulatory lists;

"GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Council of Chemical Associations (ICCA) - High Production Volume List", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Scheduled Toxic Substances", "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "OECD Representative List of High Production Volume (HPV) Chemicals".

Water (CAS: 7732-18-5) is found on the following regulatory lists;

"IMO IBC Code Chapter 18: List of products to which the Code does not apply", "New Zealand Inventory of Chemicals (NZIoC)", "OECD Representative List of High Production Volume (HPV) Chemicals".

HSNO Approval Number

HSR001545

Other Information

Specific advice on controls required for materials used in New Zealand can be found at <http://www.epa.govt.nz/hazardous-substances/approvals/Pages/default.aspx>

16. OTHER INFORMATION

Date of preparation or last revision of SDS

05/10/2016

Technical Contact Numbers

24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)

New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)

New Zealand Emergency Services: 111

Other Information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Jasol NZ cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Jasol NZ representative or Jasol NZ at the contact details on page 1.

Jasol NZ's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

END OF SDS

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