



Material Safety Data Sheet

1 Identification of substance:

- **Product name:** PPS STAINLESS STEEL ELECTROCLEANER
- **Recommend use:** Metal surface treatment
- **Stock number:** 178795
- **Manufacturer/Supplier:**
PPS Industries Limited
86 Hugo Johnston Drive,
Penrose,
Auckland, New Zealand
P.O.Box 12-823, Penrose, Auckland 1642
Phone: 64 9 579-1001
Facsimile: 64 9 579-9474
Emergency Phone: 0800 657 894 Monday to Friday 8am-4pm
Web Site: www.ppsindustries.co.nz

- **Emergency contact detail:**

For emergency only. During normal hours call PPS Industries office.

Organization	Location	Phone
National POSITION CENTER	New Zealand	0800 647-766
Chemcall 24/7 Emergency Response Service	New Zealand	0800 243-6225

2 Hazards identification

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as a Dangerous Goods according to NZS 5433.

- **Hazard description:** Class 8, PHOSPHORIC ACID, SOLUTION, Packing Group III, HazChem 2R, UN1805.

- **Hazardous Substance (HSNO):**

6.1D (all)	Acutely toxic
6.1D (oral)	Acutely toxic
6.1E (dermal)	Acutely toxic
6.8B	Suspected human reproductive or developmental toxicants
8.1A	Corrosive to metal
8.2C	Corrosive to dermal tissue
8.3A	Corrosive to ocular tissue
9.1D	Slightly harmful in the aquatic environment or are otherwise designed for biocidal action.
9.3C	Harmful to terrestrial vertebrates.

- **EPS Group Standard:**

HSR002491 - Additives, Process Chemicals and Materials (Corrosive)



• **3 Composition/Data on components:**

• **Chemical characterization:**

<u>Description:</u>	<u>(CAS#)</u>	<u>Concentration</u>
Phosphoric acid	7664-38-2	60 - 85%
Polypropylene Glycol	25322-69-4	2-5 %
Methanol	67-56-1	2-5 %

• **4 First aid measures**

• **After inhalation**

Supply fresh air or oxygen; call for doctor.

• **After skin contact**

Immediately wash with water and soap and rinse thoroughly. Seek medical treatment.

• **After eye contact**

Rinse opened eye for several minutes under running water. Protect unharmed eye. Call a doctor immediately.

• **After swallowing** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

• **Information for doctor** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

• **5 Fire fighting measures**

• **Suitable extinguishing agents**

The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions.

• **For safety reasons unsuitable extinguishing agents** Water with full jet

• **Special hazards caused by the substance, its products of combustion or resulting gases:**

In case of fire, the following can be released:
Phosphorus oxides, Sulphur oxides (SOx)

• **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

• **Additional information:**

Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.



- **6 Accidental release measures**

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:**
Do not allow product to reach sewage system. Inform respective authorities in case of seepage into sewage system. Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Keep away from ignition sources.
- **Additional information:**
Use neutralizing agent. Ensure adequate ventilation.

- **7 Handling and storage**

- **Handling**

Information for safe handling:

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

Prevent formation of aerosols.

When diluting always pour product into water and not vice versa.

Information about protection against explosions and fires:

The product is not flammable.

- **Storage**

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle. Provide acid-resistant floor. Prevent any seepage into the ground.

Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.



• **8 Exposure controls and personal protection**

• **Additional information about design of technical systems:**

No further data; see item 7

• **Components with limit values that require monitoring at the workplace:**

7664-38-2 phosphoric acid (80-100%)

WEL Short-term value	400 ppm
Long-term value	400 ppm

• **Additional information:** The lists valid during the making were used as basis.

• **Personal protective equipment**

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Use skin protection cream for skin protection.

Breathing equipment:

Use suitable respiratory protective device only when aerosol or mist is formed. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Tightly sealed goggles

Body protection: Choose personal protective equipment according to activity and possible exposure, e.g. apron, protecting boots.

• **9 Physical and chemical properties:**

General Information

- | | |
|--|----------------------------------|
| • Form: | Liquid |
| • Colour: | Colourless |
| • Odour: | Odourless |
| • Boiling point/Boiling range: | 95 - 105° C |
| • Flash point: | not applicable |
| • Flammability (solid, gaseous) | Product is not self igniting. |
| • Decomposition temperature: | Not determined |
| • Danger of explosion: | Not present an explosion hazard. |
| • PH Value at 20° C: | <1 |
| • Vapour pressure at 20 °C: | 97 hPa |
| • Density at 20 ° C: | 1.63 g/cm ³ |
| • Solubility in / Miscibility with Water: | Fully miscible. |



• **10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Materials to be avoided:**
Concentrated alkali
Reacts with base metals as aluminium
- **Dangerous reactions**
Reacts with alkali
Reacts with metals forming hydrogen.
- **Dangerous products of decomposition:**
None at correctly use.
Concerning decomposition products in the event of fire, see Chapter 5

• **11 Toxicological information**

- **Acute toxicity:**
ID/LC50 values that are relevant for classification:
Oral: LD50: 1800 mg/kg (rat)
Dermal:LD50: 3390 mg/kg (rabbit)
Inhalative: LC50/2H: 7146 mg/kg (rat)
- **Primary irritant effect:**
- **On the skin:** Strong acid effect on skin and mucous membranes.
- **On the eye:** Strong acid effect.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

• **12 Ecological information:**

- **General notes:**
Do not allow material to be released to the environment without proper governmental permits.

• **13 Disposal considerations**

- **Product:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations. To neutralise the solution, 1:2 dilution with water, add sodium carbonate or diluted sodium hydroxide to pH 6 - 9. Used solution contain nickel metal. It is recommend sent to liquid chemical waste treatment facility to dispose.
- **Uncleaned packaging:**
Recommendation:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.



• **14 Transport information**

- **Hazard class:** 8
- **Identification number:** UN1805
- **Packing group:** III
- **HazChem:** 2R
- **Proper shipping name (technical name):**
PHOSPHORIC ACID, SOLUTION

• **15 Regulations**

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• **16 Other information:**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Issue date:** 01/03/2018
- **Review date:** 28/02/2023