



# Material Safety Data Sheet

## ☐ 1 Identification of substance:

- **Product name:** STAINLESS STEEL PICKLE PASTE
- **Stock number:** 129426
- **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 764-766
Chemcall 24/7 Emergency Response Service	New Zealand	0800 243-6225

## ☐ 2 Hazards identification

Classified as hazardous according to the criteria in the EPA Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.  
Classified as a Dangerous Goods according to NZS 5433.

**Hazard description:** Class 8 - 6.1, Corrosive liquid, toxic, N.O.S., Packing Group II, UN 2922.

### **HSNO Class:**

#### **Class 6 Toxicity**

6.1B (all)	acutely toxic
6.1B (oral)	acutely toxic
6.1C (dermal)	acutely toxic
6.1C (inhalation)	acutely toxic
6.9A (oral)	special target organ toxicity
6.9B (inhalation)	special target organ toxicity

#### **Class 8 Corrosive**

8.1A	metallic corrosive
8.2B	skin corrosive
8.3A	eye corrosive

#### **Class 9**

9.3B	Substance that are ecotoxic to terrestrial vertebrates.
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GHS Classification:

Signal word: Danger

Hazard class:

Acute Toxicity oral, Category 2  
Acute Toxicity Dermal, Category 3  
Acute Toxicity Inhalation, Category 3  
Specific Target organ Toxicity, single exposure Category 1  
Specific Target organ Toxicity single exposure Category 2  
Corrosive to metals Category 1



Skin Corrosion/irritation Category 1B  
Serious eye damage /eye irritation Category 1

**Hazard Statement(s):**

H300 Fatal if swallowed  
H301 Toxic if swallowed  
H331 Toxic if inhaled  
H370 Causes damage to organs  
H371 May Cause damage to organs  
H290 May be corrosive to metals  
H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage

**Precautionary Statements:**

**Prevention:**

P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P261 Avoid Breathing dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in well-ventilated area.  
P234 Keep only in original container  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P301+P310+P330 If Swallowed: Immediately call a poison centre or doctor/physician. Rinse mouth.  
P307+311 If exposed: call a POISON CENTRE DOCTOR.  
P390 Absorb spillage to prevent material damage.  
P301+P330+P331 If Swallowed: rinse mouth. Do not induce vomiting.  
P303+P361+P353 If on skin: take off immediately all contaminated clothing. Rinse skin with water.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**EPA Group Standard:**

HSR002615 - Metal Industry Products (Toxic [6.1], Corrosive) Group Standard 2020

**Label and elements:**

Signal word: Danger

**Pictogram(s):**



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

**Chemical characterization:**

Description:	(CAS#)	Concentration	Hazardous
Hydrofluoric acid	7664-39-3	20-27 %	Yes
Nitric acid	7697-37-2	5 - 10 %	yes
Magnesium nitrate	13446-18-9	10- 30 %	Yes
Water	7732-18-5	balance	No

☐ **4 First aid measures**

**Ingestion:** If conscious, give plenty of water to drink. DO NOT INDUCE vomiting. Contact the National Poisons Centre **0800 764 766 (0800 POISON)** or a Doctor immediately. If vomiting occurs, place victim face downward, with the head turned to the side and lower than the hips to prevent vomit



entering the lungs.

**Eye contact:** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing for at least 15 minutes.

**Skin contact:** First aid personnel should avoid contact with this chemical. Wear impervious gloves when assisting patient. Immediately flush contaminated skin area with gently running water for at least 20 minutes. While washing with water remove contaminated clothing, footwear and leather goods (eg. watchbands, belts). Wearing protective gloves the first aid person should gently apply the 2.5% calcium gluconate gel to the affected area and leave on the skin until 15 minutes after the pain has subsided. If gel not readily available, continue washing with water. For burns on the skin affecting more than 65% cm<sup>2</sup> (approximately the area of the palm of the hand), give six tablets of effervescent calcium gluconate in water by mouth every two hours until admitted to hospital. Obtain medical attention immediately.

**Inhaled:** Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep victim at rest until fully recovered. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a facemask. If breathing has stopped, apply artificial respiration at once. In event of cardiac arrest, apply cardiopulmonary resuscitation (CPR) if trained. Seek medical attention.

**Advice to Doctor:** Treat symptomatically based on judgment of doctor and individual reactions of patient.

## ☐ **5 Fire fighting measures**

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is non-flammable.

**Extinguishing Media:** Carbon dioxide, extinguishing powder, foam, fog sprays.

**Unsuitable extinguishing substances:** Unknown.

**Products of combustion:** Possible HF, F- upon heating to decomposition. This product may reaction with most metals. Upon reaction with metals, explosive hydrogen gas may be formed.

**Protective gear:** Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

## ☐ **6 Accidental release measures**

### **Containment:**

If greater than 10000L is stored, secondary containment and emergency plans to manage any potential spills must be place. The product contain hydrofluoric acid should avoid contact with glass, concrete, metals, oxidisers, alkalis, combustibles, organics, ceramics.

### **Emergency procedures:**

In the event of spillage alert the fire brigade to location and give brief description of hazard. Wear protective equipment to prevent skin, eye and respiratory exposure.

Clear area of any unprotected personnel. Contain spillage using sand, earth or vermiculite. Do not use sawdust on concentrate. Prevent by whatever means possible any spillage from entering drains,



sewers, or water sources. (If this occurs contact your local council immediately).

**Clean-up method:**

Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal. Use calcium carbonate to neutralized, the ratio is 1kg of the product use 0.5kg of calcium carbonate. Do not allow product to reach drains, sewers or waterways. If contamination of sewers or waterways has occurred. The advice is to stop further flow to waterway, and advise the Environmental Protection Authority or your local Waste Authority.

**Disposal:**

Mop up and collect recoverable material into labeled containers add calcium carbonate to neutralize it and send to approved chemical dispose facility, dispose of only in accord with all regulations.

**Precautions:**

Wear protective equipment to prevent skin and eye contamination and the inhalation of vapors.  
Work up wind or increase ventilation.

## ☐ **7 Handling and storage**

**Storage:**

Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimize contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.

**Handling:**

Keep exposure to a minimum, and minimize the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapor, mist or aerosols.

## ☐ **8 Exposure controls and personal protection**

- **Exposure standards**

Ingredient	Reference	TWA		STEL	
Hydrofluoric acid	WES (NZ)	3ppm	2.6mg/m <sup>3</sup>		
Nitric acid	WES (NZ)	2ppm	5.2mg/m <sup>3</sup>	4ppm	10mg/m <sup>3</sup>

- **8.2 Exposure controls**

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

**PPE**

**Eye / Face** Wear splash-proof goggles.

**Hands** Wear PVC gloves.

**Body** Wear rubber or PVC boots and a PVC apron and impervious coveralls.

**Respiratory** Wear a Full-face Type B (Inorganic and Acid gas) respirator. With prolonged use, wear an Air-line respirator.

☐ **9 Physical and chemical properties:**

Appearance:	Clear liquid
Color:	translucent
Odor:	no particular odor
Vapor pressure:	not applicable
Vapor density	not applicable
Boiling point:	not applicable
Volatile materials:	Nitric acid, water phase
Freezing / melting point:	not applicable
Solubility:	completely soluble in water
Density:	1.35 g/cm <sup>3</sup> at 20 °C
pH:	< 1
Flash point:	non flammable
Danger of explosion:	not explosive
Auto-ignition temperature:	non flammable
Upper and lower flammable limits:	non flammable
Corrosiveness:	corrosive

☐ **10 Stability and reactivity****Stability:**

This product is unlikely to react or decompose under normal storage conditions. This product will reactions glass, ceramic, concrete, rubber, leather, many metals, cast iron and organic compounds. Upon reaction with metals, explosive hydrogen gases may be formed.

**Conditions to be avoided:**

Avoid excessive heat, direct sunlight, static discharges, open flame and high temperatures. Light sensitive.

Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.

**Incompatible groups:**

Avoid contact with bases (eg. Caustic soda), can react violently. Incompatible with strong bases, metals, glass, leather, alkalis, concrete, silica sulphides, cyanides, carbonates.

**Hazardous decomposition products:**

Upon reaction with metals, explosive hydrogen gases may be formed.

☐ **11 Toxicological information**

Health hazard: Highly corrosive - toxic. This product has the potential to cause serious adverse health effect. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in sever and permanent eye, skin and respiratory damage.

**Oral:** Calculated for hydrofluoric acid and nitric acid mixture  
LD50 45 mg/l (oral, rat).

**Dermal:** Calculated for hydrofluoric acid and nitric acid mixture  
LD50 434 mg/l (dermal, rat).



**Inhalation:** Calculated for hydrofluoric acid and nitric acid mixture LD50 4.6 mg/l (vapour).

**Eye:** The mixture is pH < 2, which is corrosive to the eye, because some of the ingredients present at 22% are considered eye corrosives.

**Skin:** The mixture is considered to be corrosive to the skin, because some of the ingredients present at 22% are considered skin corrosives.

## ☐ 12 Ecological information:

Eco toxicity: No information available.

Persistence/Degradability: No information available.

Mobility: No information available.

Environmental Fate: Avoid release to the environment. Endangers drinking-water supplies if allowed to enter soil or water. Harmful effect due to pH shift.

Bioaccumulation Potential: No information available.

Environmental Impact: No Data Available

## ☐ 13 Disposal considerations

**Disposal method:**

Neutralize with calcium carbonate, lime, weak alkali or similar. For small amounts, absorb with sand and dispose of to an approved landfill site. Contact the manufacture / supplier for addition information (if required).

**Contaminated packaging:**

Rinse with neutralize chemical as above, and rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

## ☐ 14 Transport information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a hazardous substance for transport.

Proper shipping name:	Corrosive liquid, toxic, n.o.s.
UN number:	2922
Class(es):	8, 6.1
HAZCHEM:	2X
Packing group:	PG II

## ☐ 15 Regulations

**HSNO Class:**

**Class 6 Toxicity**

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**EPA Group Standard:**

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**Certified handler / tracking:**

According Worksafe New Zealand 'New Rules of Hazardous Substance November 2017', product classified as 6.1A or 6.1B is require certified handler



and tracking. This product need Certified handler and tracking.

☐ **16 Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Issue date:** 27/07/2021

**Review date:** 26/07/2026