

# Pin Proweld Pickling Gel Callington Haven Pty Ltd

Chemwatch: 02-0941 Version No: 4.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

## Chemwatch Hazard Alert Code: 4

Issue Date: **07/03/2020** Print Date: **15/06/2022** S.GHS.AUS.EN

#### SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier		
Product name	Pin Proweld Pickling Gel	
Synonyms	Not Available	
Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (contains nitric acid and hydrofluoric acid)	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Stainless steel weld scale remover.

#### Details of the supplier of the safety data sheet

Registered company name	Callington Haven Pty Ltd	
Address	30 South Street Rydalmere NSW 2116 Australia	
Telephone	+61 2 9898 2700	
Fax	+61 2 9475 0449	
Website	www.callingtonhaven.com	
Email	customerservice@callington.com	

#### **Emergency telephone number**

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+61 1800 951 288	
Other emergency telephone numbers	+61 3 9573 3188	

Once connected and if the message is not in your prefered language then please dial 01

## **SECTION 2 Hazards identification**

## Classification of the substance or mixture

Poisons Schedule	dule S7	
Classification [1]	Acute Toxicity (Dermal) Category 2, Acute Toxicity (Inhalation) Category 1, Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Skin) Category 1, Germ Cell Mutagenicity Category 2, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Acute Toxicity (Oral) Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

## Label elements

Hazard pictogram(s)







Signal word Dange

## Hazard statement(s)

H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H335	May cause respiratory irritation.

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H301

Toxic if swallowed.

#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P260	Do not breathe mist/vapours/spray.	
P262	Do not get in eyes, on skin, or on clothing.	
P264	Wash all exposed external body areas thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	

#### Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P301+P330+P331	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 [or shower].	
P304+P340	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.		

#### Precautionary statement(s) Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	

## Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Not Applicable

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
7697-37-2	10-30	<u>nitric acid</u>
7664-39-3	<10	hydrofluoric acid
Not Available	10-30	performance additives
7732-18-5	30-60	water
Not Available		NOTE: Manufacturer has supplied full ingredient
Not Available		information to allow CHEMWATCH assessment.
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

## **SECTION 4 First aid measures**

## Description of first aid measures

	If this product or its vapours come in contact with the eyes
	DO NOT DELAY: Immediately irrigate continuously by
Eye Contact	Ensure complete irrigation of the eye by keeping eyeli

- ▶ DO NOT DELAY: Immediately irrigate continuously by holding the eyelids apart and washing with fresh running water.
  - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids
  - Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
  - ► Transport to hospital, eye clinic or eye specialist, ophthalmologist without delay.

#### DO NOT delay

DO NOT delay.

If there is evidence of severe skin irritation or skin burns:

- Avoid further contact. Immediately remove contaminated clothing, including footwear.
- Flush skin under running water for 15 minutes.
- Avoiding contamination of the hands, massage calcium gluconate gel into affected areas, pay particular attention to creases in skin.
- - ▶ Continue gel application for at least 15 minutes after burning sensation ceases.
  - If pain recurs, repeat application of calcium gluconate gel or apply every 20 minutes.
  - If no gel is available, continue washing for at least 15 minutes, using soap if available. If patient is conscious, give six calcium gluconate or calcium carbonate tablets in water by mouth.
  - Transport to hospital, or doctor, urgently.

## For massive exposures:

- If dusts, vapours, aerosols, fumes or combustion products are inhaled, remove from contaminated area.
- Lay patient down.
- Keep warm and rested.
  - Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
  - Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
  - If victim is conscious, give six calcium gluconate or calcium carbonate tablets in water by mouth.

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► Transport to hospital, or doctor, urgently.

DO NOT delay.
Rinse mouth out with plenty of water.
Transport to hospital or doctor and seek immediate medical attention.
DO NOT INDUCE vomiting.
If patient is conscious, give six calcium gluconate or calcium carbonate tablets dissolved in water, by mouth.

#### Indication of any immediate medical attention and special treatment needed

Following acute or short term repeated exposure to hydrofluoric acid:

- Subcutaneous injections of Calcium Gluconate may be necessary around the burnt area. Continued application of Calcium Gluconate Gel or subcutaneous Calcium Gluconate should then continue for 3-4 days at a frequency of 4-6 times per day. If a "burning" sensation recurs, apply more frequently.
- Systemic effects of extensive hydrofluoric acid burns include renal damage, hypocalcaemia and consequent cardiac arrhythmias. Monitor haematological, respiratory, renal, cardiac and electrolyte status at least daily. Tests should include FBE, blood gases, chest X-ray, creatinine and electrolytes, urine output, Ca ions, Mg ions and phosphate ions. Continuous ECG monitoring may be required.
- Where serum calcium is low, or clinical, or ECG signs of hypocalcaemia develop, infusions of calcium gluconate, or if less serious, oral Sandocal, should be given. Hydrocortisone 500 mg in a four to six hourly infusion may help.
- Antibiotics should not be given as a routine, but only when indicated.
- Figure 2. Eye contact pain may be excruciating and 2-3 drops of 0.05% pentocaine hydrochloride may be instilled, followed by further irrigation

#### BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

DeterminantIndexSampling TimeComments1. Methaemoglobin in blood1.5% of haemoglobinDuring or end of shiftB, NS, SQ

- B: Background levels occur in specimens collected from subjects NOT exposed.
- NS: Non-specific determinant; Also seen after exposure to other materials
- SQ: Semi-quantitative determinant Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

#### **SECTION 5 Firefighting measures**

#### **Extinguishing media**

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- ▶ Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

► Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous  Avoid storage with glass, cement, concrete and other silicon materials; reaction produces toxic silicon tetrafluoride gas; which and/or rupture containers.  Avoid reaction with organic materials / compounds powdered metals reducing agents and hydrogen sulfide (H2S) as ignition may result  Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.	ch may pressurise

## Advice for firefighters

Advice for filelighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Consider evacuation (or protect in place).</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>Other decomposition products include:         <ul> <li>carbon dioxide (CO2)</li> <li>hydrogen fluoride</li> </ul> </li> <li>and         <ul> <li>nitrogen oxides (NOx)</li> </ul> </li> </ul>
HAZCHEM	2X

#### **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

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#### Pin Proweld Pickling Gel

Methods and material for containment and cleaning up

Minor Spills

**Major Spills** 

DO NOT touch the spill material

Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

Wear impervious gloves and safety glasses.

Use soda ash or slaked lime to neutralise

Trowel up/scrape up.

Place spilled material in clean, dry, sealable, labelled container.

Flush spill area with water.

- Clear area of personnel and move upwind.
  - Alert Fire Brigade and tell them location and nature of hazard.
  - Wear full body protective clothing with breathing apparatus.
  - ▶ Prevent, by any means available, spillage from entering drains or water course.
  - Consider evacuation (or protect in place).

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 Handling and storage**

#### Precautions for safe handling

▶ DO NOT allow clothing wet with material to stay in contact with skin

Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.

Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Avoid all personal contact, including inhalation

Wear protective clothing when risk of exposure occurs.

Safe handling

 $\textbf{WARNING} : \textbf{To avoid violent reaction, ALWAYS} \ \text{add material to water and NEVER water to material}.$ 

Avoid contact with incompatible materials.

WARNING: To avoid violent reaction, ALV

Handle and open container with care

When handling, DO NOT eat, drink or smoke

Keep containers securely sealed when not in use

Avoid physical damage to containers.

Wash hands with soap and water after handling.

Work clothes should be laundered separately:  $\begin{tabular}{c} \begin{tabular}{c} \beg$ 

Store in original containers.
 Keen containers securely s

- Keep containers securely sealed.
- ▶ Store in a cool, dry area protected from environmental extremes.
- ▶ Store away from incompatible materials and foodstuff containers.
- ▶ Protect containers against physical damage and check regularly for leaks.
- ► Keep containers securely sealed

Store in a cool, dry and well-ventilated area.

► Store away from incompatible materials.

Floors should be covered or coated with acid resistant material.

DO NOT stack on wooden pallets.

▶ DO NOT store in pits, depressions, basements or areas where vapours may be trapped

Protect containers against physical damage

► Check regularly for spills and leaks

## Conditions for safe storage, including any incompatibilities

#### Suitable container

Other information

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

## Storage incompatibility

► DO NOT use unlined steel containers

DO NOT use aluminium, galvanised or tin-plated containers

F Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

Avoid storage with glass, cement, concrete and other silicon materials; reaction produces toxic silicon tetrafluoride gas; which may pressurise

combustible materials

and/or rupture containers.

and metal oxides

motar oxideo

## SECTION 8 Exposure controls / personal protection

#### **Control parameters**

## Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	nitric acid	Nitric acid	2 ppm / 5.2 mg/m3	10 mg/m3 / 4 ppm	Not Available	Not Available
Australia Exposure Standards	hydrofluoric acid	Hydrogen fluoride (as F)	Not Available	Not Available	3 ppm / 2.6 mg/m3	Not Available

#### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2		TEEL-3
nitric acid	Not Available	Not Available		Not Available
hydrofluoric acid	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	

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Ingredient	Original IDLH	Revised IDLH
nitric acid	25 ppm	Not Available
hydrofluoric acid	30 ppm	Not Available
water	Not Available	Not Available

#### **Exposure controls**

## Appropriate engineering controls

Use in a well-ventilated area

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly.

## Personal protection







Eye and face protection

- ► Safety glasses with side shields
- Chemical goggles.
- Cnemical goggles
- ▶ Full face shield may be required for supplementary but never for primary protection of eyes.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

#### Skin protection

#### See Hand protection below

#### and

Neoprene rubber gloves

#### Hands/feet protection

or

· Nitrile rubber gloves (Note: Nitric acid penetrates nitrile gloves in a few minutes.)

- ► Elbow length PVC gloves
- Rubber boots

▶ Barrier cream

► PVC safety gumboots

#### **Body protection**

See Other protection below

## Other protection

Always ensure that a supply, is on hand, of calcium gluconate gel for treatment of burns and calcium carbonate tablets for accidental ingestion.

- Overalls.
- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Eyewash unit.
- ▶ Ensure there is ready access to a safety shower.

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

## "Forsberg Clothing Performance Index"

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
NEOPRENE	А
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
VITON	С
VITON/NEOPRENE	С

<sup>\*</sup> CPI - Chemwatch Performance Index

B: Satisfactory; may degrade after 4 hours continuous immersion

## Respiratory protection

Type BE-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	BE-AUS P2	-	BE-PAPR-AUS / Class 1 P2
up to 50 x ES	-	BE-AUS / Class 1 P2	-
up to 100 x ES	-	BE-2 P2	BE-PAPR-2 P2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

A: Best Selection

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C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final

selection must be based on detailed observation. 
\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## **SECTION 9 Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance	Opaque white acidic gel; mixes with water. Pungent acidic	odour.	
Physical state	Non Slump Paste	Relative density (Water = 1)	1.33-1.35
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	<1	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Presence of heat source</li> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 Toxicological information**

Information on	toxicological	effects
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Information on toxicological ef	fects
Inhaled	The vapour is extremely discomforting Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness. Inhalation hazard is increased at higher temperatures. Acute effects of fluoride inhalation include irritation of nose and throat, coughing and chest discomfort. A single acute over-exposure may even cause nose bleed. Reactions may not occur on exposure but response may be delayed with symptoms only appearing many hours later
Ingestion	Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident.
Skin Contact	Skin contact causes yellow discolouration of the skin.  Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue.  Fluorides are easily absorbed through the skin and cause death of soft tissue and erode bone. Healing is delayed and death of tissue may continue to spread beneath skin.
Еуе	Eye contact is extremely painful and may cause rapid corneal damage Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns. Mild burns of the epithelia generally recover rapidly and completely.  Exposure can cause severe burns and prolonged or permanent loss of sight.
Chronic	Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs.  Hydrogen fluoride easily penetrates the skin and causes destruction and corrosion of the bone and underlying tissue. Ingestion causes severe

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nitric

hydrofluoric

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	pains and burns in the mouth and throat and blood calcium levels are da	ngerously reduced.
	TOXICITY	IRRITATION
g Gel	Not Available	Not Available
	TOXICITY	IRRITATION
acid	Inhalation(Rat) LC50; 0.13 mg/L4h <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>
	TOVICITY	IDDITATION
acid	TOXICITY	IRRITATION
, uoiu	Inhalation(Mouse) LC50; 342 ppm4h <sup>[2]</sup>	Eye (human): 50 mg - SEVERE

TOXICITY IRRITATION water Oral (Rat) LD50; >90000 mg/kg<sup>[2]</sup> Not Available

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

## NITRIC ACID

Oral (?) LD50: 50-500 mg/kg \* [Various Manufacturers]

For acid mists, aerosols, vapours

Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been examined in this respect. Mucous secretion may protect the cells of the airway from direct exposure to inhaled acidic mists (which also protects the stomach lining from the hydrochloric acid secreted there).

The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

(liver and kidney damage) [Manufacturer] for hydrogen fluoride (as vapour)

Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.

HYDROFLUORIC ACID

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important.

#### **NITRIC ACID &** HYDROFLUORIC ACID

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

**HYDROFLUORIC ACID &** 

No significant acute toxicological data identified in literature search.

Acute Toxicity	<b>✓</b>	Carcinogenicity	×
Skin Irritation/Corrosion	<b>✓</b>	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	<b>✓</b>	STOT - Repeated Exposure	×
Mutagenicity	<b>✓</b>	Aspiration Hazard	×

The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function.

Leaend:

★ - Data either not available or does not fill the criteria for classification. Data available to make classification

## **SECTION 12 Ecological information**

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
EC50(ECx)	96h	Crustacea	39mg/l	2
EC50	48h	Crustacea	490mg/l	2
LC50	96h	Fish	102.24mg/L	4
Endpoint	Test Duration (hr)	Species	Value	Source
NOEC(ECx)	504h	Crustacea	3.7mg/	2
EC50	48h	Crustacea	97mg/l	2
	Not Available  Endpoint EC50(ECx) EC50 LC50  Endpoint NOEC(ECx)	Not Available         Not Available           Endpoint         Test Duration (hr)           EC50(ECx)         96h           EC50         48h           LC50         96h           Endpoint         Test Duration (hr)           NOEC(ECx)         504h	Not Available         Not Available           Endpoint         Test Duration (hr)         Species           EC50(ECx)         96h         Crustacea           EC50         48h         Crustacea           LC50         96h         Fish           Endpoint         Test Duration (hr)         Species           NOEC(ECx)         504h         Crustacea	Not Available         Not Available         Not Available           Endpoint         Test Duration (hr)         Species         Value           EC50(ECx)         96h         Crustacea         39mg/l           EC50         48h         Crustacea         490mg/l           LC50         96h         Fish         102.24mg/L           Endpoint         Test Duration (hr)         Species         Value           NOEC(ECx)         504h         Crustacea         3.7mg/l

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	EC50	96h	Algae or other aquatic plants	43mg/l	2
	LC50	96h	Fish	51mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa		d Substances - Ecotoxicological Information - Aquati rd Assessment Data 6. NITE (Japan) - Bioconcentra		

## DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation		
	No Data available for all ingredients		

#### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

## **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- ▶ Treat and neutralise at an effluent treatment plant.
- Use soda ash or slaked lime to neutralise.
- ▶ Recycle containers, otherwise dispose of in an authorised landfill.

## **SECTION 14 Transport information**

## **Labels Required**



Marine Pollutant NO
HAZCHEM 2X

## Land transport (ADG)

UN number	2922		
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (contains nitric acid and hydrofluoric acid)		
Transport hazard class(es)	Class         8           Subrisk         6.1		
Packing group	П		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions 274 Limited quantity 1 L		

## Air transport (ICAO-IATA / DGR)

UN number	2922		
UN proper shipping name	Corrosive liquid, toxic, n.o.s. * (contains nitric acid and hydrofluoric acid)		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 6.1 8P	
Packing group	II		
Environmental hazard	Not Applicable		

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	Special provisions	A3 A803
	Cargo Only Packing Instructions	855
	Cargo Only Maximum Qty / Pack	30 L
Special precautions for user	Passenger and Cargo Packing Instructions	851
	Passenger and Cargo Maximum Qty / Pack	1 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y840
	Passenger and Cargo Limited Maximum Qty / Pack	0.5 L

#### Sea transport (IMDG-Code / GGVSee)

UN number	2922		
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (contains nitric acid and hydrofluoric acid)		
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk 6.1		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number F-A, S-B Special provisions 274 Limited Quantities 1 L		

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
nitric acid	Not Available
hydrofluoric acid	Not Available
water	Not Available

## Transport in bulk in accordance with the ICG Code

Product name	Ship Type
nitric acid	Not Available
hydrofluoric acid	Not Available
water	Not Available

## **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

## nitric acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

#### hydrofluoric acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  $\bf 3$ 

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4  $\,$ 

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5  $\,$ 

## water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Australian Inventory of Industrial Chemicals (AIIC)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 7  $\,$ 

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

## ECHA SUMMARY

Ingredient	CAS number	Index No	ECHA Dossier	
hydrofluoric acid	7664-39-3	009-002-00-6 009-003-00-1	01-2119458860-33-XXXX 01-2120762785-41-XXXX	

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 2; Acute Tox. 1; Skin Corr. 1A; Acute Tox. 2	GHS05; GHS06; Dgr	H300; H310; H314; H330
2	Acute Tox. 2; Acute Tox. 1; Skin Corr. 1A; Acute Tox. 2	GHS05; GHS06; Dgr	H300; H310; H314; H330

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

## Pin Proweld Pickling Gel

Ingredient	CAS number	Index No	ECHA Dossier
water	7732-18-5	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified	Not Available	Not Available
2	Flam. Liq. 3; Acute Tox. 3; Skin Corr. 1A; Acute Tox. 2	GHS05; Dgr; GHS02; GHS06	H318; H226; H314; H301; H411

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (nitric acid; hydrofluoric acid; water)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

#### **SECTION 16 Other information**

Revision Date	07/03/2020
Initial Date	05/02/2008

#### **SDS Version Summary**

Version	Date of Update	Sections Updated	
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification	
4.1	07/03/2020	Classification change due to full database hazard calculation/update.	

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

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. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

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NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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