



1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

Product Identifier:

Safety Data Sheet: Acid

Product name	Trade Acid
Synonyms	AKK1017, AKZ1017W
Proper shipping name	HYDROCHLORIC ACID
Other means of	n/a
identification	

Relevant identified uses of the substance/mixture:

Relevant identified use | Concrete etching solution

Details of manufacturer/supplier:

Company name	Peter Fell Ltd
Address	81 Patiki Rd, Avondale, Auckland 1026, New Zealand
Telephone	+64 9 828 6460
Website	www.peterfell.co.nz
e-mail	info@peterfell.co.nz

Emergency telephone number:

Association/Organisation	National Poison Center
Telephone	0800 764 766
Website	www.poisons.co.nz

2: HAZARD IDENTIFICATION

Classification of the substance/mixture:

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

HSNO Classification 6.1D (Oral), 6.1D (Dermal), 6.1B, 8.1A, 8.2B, 8.3A 9.1D, 9.3C.

Label Elements:

Hazard pictogram(s)



Signal word Danger

Hazard statement(s):

H290	May be corrosive to metals
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes sever skin burns and eye damage.

H330	Fatal if inhaled.
H401	Toxic to aquatic life.
H433	Harmful to terrestrial vertebrates

Precautionary Statement(s) Prevention:

P102	Keep out of reach of children
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe dust, fume, gas, mist, vapours or spray.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only in well-ventilated areas
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P284	Wear respiratory protection.

Precautionary Statement(s) Responses:

If medical advice is needed, have product container or label at hand.	
IF SWALLOWED: Immediately call a POISON CENTRE/doctor/physician/first aider.	
IF SWALLOWED: Rince mouth. Do NOT induce vomiting.	
IF ON SKIN: Wash with plenty of soap and water.	
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with	
water (or shower).	
IF INHAILED: Remove person to fresh air and keep comfortable breathing.	
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
lenses., if present and easy to do so. Continue rinsing.	
Call a POISON CENTRE or doctor/physician if you feel unwell.	
O Specific treatment is urgent (see product label).	
Specific treatment (see product label).	
2 Specific measures (see product label).	
Rinse mouth	
Wash contaminated clothing before reuse	
Absorb spillage to prevent damage	

Precautionary Statement(s) Storage:

P403+P233 Store in a well-ventilated space. Keep container tightly closed.	
P405	Store locked up.
P406	Store in original container with resistant inner liner.

Precautionary Statement(s) Disposal:

P501	Dispose of contents/container to authorised hazardous or special waste collection
	point in accordance with any local regulation.

3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances:

Name	CAS Number	Proportion
Hydrochloric acid	7647-01-0	33%
water	7732-18-5	67%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4: FIRST AID

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Description of first aid measures:

Eye Contact	- Wash out immediately 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.
	- Seek medical attention without delay; if pain persists or recurs seek medical
	attention.
	- Removal of contact lenses after an eye injury should only be undertaken by
	skilled personnel.
	- Immediately remove all contaminated clothing, including footwear.
Skin Contact	- Flush skin and hair with running water (and soap if available).
	- Seek medical attention in event of irritation.
	- If 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,
labalatia a	where possible, prior to initiating first aid procedures.
Inhalation	- 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.
	- Transport to hospital, or doctor, without delay.
	- If spontaneous vomiting appears imminent or occurs, hold patient's head down,
	lower than their hips to help avoid possible aspiration of vomitus.
	- If swallowed do NOT induce vomiting
	- If vomiting occurs, lean patient forward or place on left side (head-down position
	if possible) to maintain open airway and prevent aspiration.
	- Observe the patient carefully.
Ingestion	- Never give liquid to a person showing signs of being sleepy or with reduced
ů.	awareness; i.e. becoming unconscious.
	- Give water to rinse out mouth, then provide liquid slowly and as much as
	casualty can comfortably drink.
	- Seek medical advice.
	- Avoid giving milk or oils

5: FIREFIGHTING MEASURES

Type of Hazard

Hazchem Code: 2R

Extinguishing Media

If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific Hazards

Non-combustable material.

Advice for firefighters

Not applicable.

6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

See Section 6.

Environmental Precautions

See Section 12.

Method and material for containment and cleaning up - Minor spills

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

Method and material for containment and cleaning up - Major spills

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

7. STORAGE AND HANDLING

Precautions for safe handling.

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Conditions for safe storage.

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

7647-01-0, Hydrochloric acid, ACGIH; 2 ppm ceiling

7647-01-0, Hydrochloric acid, NIOSH; 5 ppm ceiling, 7 mg/m³ ceiling

Biological Limit Values:

As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection

Personal Protection	
	- Safety glasses with side shields.
Eye and Face Protection	 Chemical goggles. 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.
Skin Protection	- See Hand protection below
Hand/feet Protection	 - Wear chemical protective gloves. - Recommended: PE/EVAL/PE or PVA or Teflon or Viton. - Wear safety footwear or safety gumboots e.g rubber - The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. - The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.
Body Protection	- Overalls - PVC Apron - PVC protective suit may be required if exposure severe.
Thermal Hazards	Not Available
Other Protection	Respirator – not normay required, but if used should have Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to yellow	Relative Density to water (water =1)	1.14
Physical State	Liquid	Auto-Ignition Temperature (°C)	Not Available
Odour	Acidic odour	Decomposition Temperature (°C)	Not Available
рН	Not Available	Viscosity (cSt)	Not Available
Melting Point (°C)	Not Available	Molecular wight (g/mol)	Not Available
Freezing Point (°C)	Not Available	Taste	Not Available
Boiling Point (°C)	91-98	Explosive Properties	Not Available
Flash Point (°C)	Not Available	Oxidising Properties	Not Available
Evaporation Rate	Not Available	Volatile Component (%)	Not Available
Explosive Properties	Not Available	VOC g/L	Not Available
Upper Explosive Limit (%)	Not Available	Solubility in water (g/L)	Miscible in water
Lower Explosive Limit (%)	Not Available	Vapour Density in Air (Air = 1)	Not Available

10. STABILITY AND REACTIVITY

Chemical stability:

This material is thermally stable when stored and used as directed.

Conditions to avoid:

Elevated temperatures and sources of ignition

Incompatible materials:

Oxidising agents.

Hazardous decomposition products:

Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions:

No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

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

Acute Effects

Inhalation: Fatal if inhaled. Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Harmful in contact with skin. Can be absorbed through the skin with resultant toxic effects. Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

Ingestion: Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Eye contact: A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Acute toxicity

Inhalation: This material has been classified as a 6.1B - Substances that are acutely toxic. Acute toxicity estimate (based on ingredients): $0.5 < LC50 \le 2.0$ mg/L for vapours or $0.05 < LC50 \le 0.5$ mg/L for dust and mist

Skin contact: This material has been classified as a 6.1D - Substances that are acutely toxic. Acute toxicity estimate (based on ingredients): 1,000 - 2,000 mg/Kg bw

Ingestion: This material has been classified as a 6.1D - Substances that are acutely toxic. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as a 8.3A - Substances that are corrosive to ocular tissue. Skin: this material has been classified as a 8.2B - Substances that are corrosive to dermal tissue.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous. Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: 9.1D - Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

Ecotoxicity in the soil environment: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial vertebrates: This material has been classified as a 9.3C - Substances that are harmful to terrestrial vertebrates.

Ecotoxicity to terrestrial invertebrates: This material has been classified as non-hazardous.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Water Treatment methods

	- Ensure that the disposal of material is carried out in accordance with
	Hazardous Substances (Disposal) Notice 2017.
	- Containers may still present a chemical hazard/ danger when empty
	- Return to supplier for reuse/ recycling if possible.
Product/Packaging Disposal	- If container can not be cleaned sufficiently well to ensure that residuals do
	not remain or if the container cannot be used to store the same product, ther
	puncture containers, to prevent re-use, and bury at an authorised landfill.
	- Where possible retain label warnings and MSDS and observe all notices
	pertaining to the product

14. TRANSPORT INFORMATION

Label Requirements

Label Requirements



HAZCHEM

Land Transport (UN)

V	1789
Packing Group	
UN Proper Shipping Name	HYDROCHLORIC ACID
Emergency Response Guide	40
No	
Transport Hazard Class(es)	8
Segregation Dangerous Goods	Not to be loaded with explosives (Class 1), dangerous when wet substances(Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids. Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

Air Transport (ICAO-IATA/DGR)

UN Number	1789
Packing Group	
UN Proper Shipping Name	HYDROCHLORIC ACID

Emergency Response Guide	40
No	
Transport Hazard Class(es)	8
Segregation Dangerous Goods	Not to be loaded with explosives (Class 1), dangerous when wet substances(Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids. Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

Sea Transport (IMDG-Code/GGVSee)

UN Number	1789
Packing Group	
UN Proper Shipping Name	HYDROCHLORIC ACID
Emergency Response Guide	40
No	
Transport Hazard Class(es)	8
Segregation Dangerous Goods	Not to be loaded with explosives (Class 1), dangerous when wet substances(Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids. Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

15. REGULATORY INFORMATION

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

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants) The Rotterdam Convention (Prior Informed Consent)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Acidic solutions or acids in solid form

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex II Noxious Liquid Substances carried in Bulk
- All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

HSNO Approval Code:

HSR001557 Approved handler No

16. OTHER INFORMATION

SDS Created	June 2024
SDS Updated	June 2024

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 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.