Safety Data Sheet



Identification of Substance & Company

Product

Product nameAllied Ready Acid

Other name NA
Product code ALLRACID
H\$NO approval H\$R001557

Approval description Hydrochloric acid, >25% aqueous solution

UN number 178

Proper Shipping Name HYDROCHLORIC ACID

DG class 8, 6.1
Packaging group || Hazchem code 2R

Uses Surface preparation

Company Details

Company
Address
Peter Fell LTD
81 Patiki Rd
Avondale
Auckland

Telephone09 828 6460Emailinfo@peterfell.co.nz

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR001557, Hydrochloric acid, >25% aqueous solution), and is classified as follows:

Classes Hazard Statements

6.1B (inhalation)
6.1D (oral)
H330 - Fatal if inhaled.
H302 - Harmful if swallowed.
H290 - May be corrosive to metals.

8.2B H314 - Causes severe skin burns and eye damage.

8.3A9.1DH318 - Causes serious eye damage.H402 - Harmful to aquatic life.

9.3C H433 - Harmful to terrestrial vertebrates.

SYMBOLS

DANGER



Other Classifications

There are no other Classifications that are known to apply.

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Precautionary Statements

Read label before use.

Keep out of reach of children. Do not breathe fume/vapours.

Use only outdoors or in a well-ventilated area.

Wash hands thoroughly after handling.

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

Keep only in original container.

Absorb spillage to prevent material damage.

Store in corrosive resistant container with a resistant inner liner.

Wear respiratory protection.

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

Call a POISON CENTRE or doctor if you feel unwell.

Avoid release to the environment.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

Further precautionary statements can be found in Section 4 – First Aid.

3. Composition / Information on Ingredients

Component	CAS/	Concentratio
	Identification	n
hydrochloric acid	7647-01-0	33%
water	7732-18-5	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

Ready access to running water is required. Accessible eyewash is required.

facilities

Exposure

Swallowed IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If conscious, give plenty

of water to drink. Contact the National Poisons Centre or a Doctor immediately. If vomiting occurs, place victim face downwards, with the head turned to the

side and lower than the hips to prevent vomit entering the lungs.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. Immediately call a

POISON CENTRE or doctor/physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Immediately call a POISON CENTRE or doctor/physician.

Advice to Doctor

Inhaled

Treat symptomatically. May cause corneal burns.

5. Firefighting Measures

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

Carbon dioxide, extinguishing powder, foam, fog sprays.

Unsuitable extinguishing

substances:

Unknown.

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Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.

Water. May form toxic mixtures in air and may accumulate in sumps, pits and

other low-lying spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls,

gloves, hat and eye protection.

Hazchem code: 2R

6. Accidental Release Measures

Containment If greater than 100L is stored, secondary containment and emergency plans to

manage any potential spills must be in place. In all cases design storage to

prevent discharge to stormwater.

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description

of hazard. Stop the source of the leak, if safe to do so.

Wear protective equipment to prevent skin, eye and respiratory exposure.

Clear area of any unprotected personnel. Contain using sand, earth or vermiculite.

Prevent by whatever means possible any spillage from entering drains, sewers, or

water courses. (If this occurs contact your regional council immediately).

Clean-up method

Use absorbent (soil, sand or other inert material). Rags are not recommended for

the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Mop up and collect recoverable material into labelled containers for recycling or

salvage. Recycle containers wherever possible. This material may be suitable for

approved landfill. Dispose of only in accord with all regulations.

PrecautionsWear protective equipment to prevent skin and eye contamination and the

inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling

Disposal

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Store in original container only. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid

contact with incompatible substances as listed in Section 10.

HandlingKeep exposure to a minimum, and minimise the quantities kept in work areas.

See section 8 with regard to personal protective equipment requirements. Avoid

skin and eye contact and inhalation of vapour, fumes, mist or aerosols.

If diluting, always add acid to water. Do not add water to concentrated acid.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10ma/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL
Exposure Stds hydrochloric acid Ceiling 5 ppm (7.5 data unavailable

(2016) mg/m3)³

* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes

Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses.

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Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile, neoprene, PVC, or natural rubber gloves are recommended. PVA gloves are not recommnded. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or





Respiratory



A respirator when airborne concentrations approach the WES (section 8). Use an acid gas cartridge with a full face mask. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance clear liquid

Odour pungent chlorine odour

Нq <1

Vapour pressure 25kPa @25°C Viscosity no data 109°C **Boiling point Volatile materials** No data -74°C Freezing / melting point

Solubility miscible with water

Specific gravity / density 1.18 (water = 1)Flash point non flammable

Danger of explosion no data **Auto-ignition temperature** no data **Upper & lower flammable** no data

limits

Corrosiveness

corrosive to metals, skin and eyes

10. Stability & Reactivity

Stability

Stable

Conditions to be avoided

Use original container only. Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. Any foodstuffs. Alkalis, oxidising agents, sodium hypochlorite, cyanides, metals.

As above.

Incompatible groups **Substance Specific** Incompatibility

Hazardous decomposition

products

Hazardous reactions

Hydrogen chloride gas

Corrosive to many metals with the liberation of hydrogen gas, which is highly flammable and explosive. reactions with alkalis, may heat up if water is added to

concentrated acid.

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11. Toxicological Information

Summary

IF SWALLOWED: may cause severe abdominal pain, breathing difficulties, chest pains, severe mouth and throat pain, drooling, fever, rapid drop in blood pressure and vomiting of blood.

IF IN EYES: may cause blindness, burns of the eye

IF ON SKIN: may cause blisters, burns, pain.

IF INHALED: may cause tightness of chest, bluish colour to lips, choking, coughing, dizziness, low blood pressure, rapid pulse, shortness of breath, weakness.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg. Data considered includes: hydrochloric acid 700mg/kg (rat).

Dermal Using LD50's for ingredients, the calculated LD50 (dermal, rat) for the mixture is

>5000 mg/kg. Data considered includes: hydrochloric acid 2000 mg/kg.

Inhaled Using LC₅₀'s for ingredients, the calculated LC₅₀ (inhalation, rat) for the mixture is

>5,000 ppm. Data considered includes: hydrochloric acid 5mg/L (60mins),

0.4mg/L (mouse).

Eye The mixture is considered to be corrosive to the eye. Hydrochloric acid is an eye

corrosive.

Skin The mixture is considered to be corrosive to the skin. Hydrochloric acid is a skin

corrosive.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

Mutagenicity
Carcinogenicity
No ingredient present at concentrations > 0.1% is considered a mutagen.
No ingredient present at concentrations > 0.1% is considered a carcinogen.
No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation.

Systemic No ingredient present at concentrations > 1% is considered a target organ

toxicant.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

Hydrochloric acid 33% is considered to be harmful to aquatic organisms. Do not allow mixture to enter drains, sewers or waterways.

Supporting Data

Aquatic Hydrochloric acid 33% is classed by EPA as 9.1D based on the change of pH

caused by this substance. LC

BioaccumulationDoes not bioaccumulate.DegradabilityRapidly degradable.

Soil EPA has not classified the mixture as ecotoxic in the soil environment.

Terrestrial vertebrate EPA have classed this mixture as harmful towards terrestrial vertebrates. Data

considered includes: hydrochloric acid 700mg/kg (rat).

Terrestrial invertebrate No evidence of ecotoxicity towards terrestrial invertebrates.

Biocidal no data

Environmental effect levelsNo EELs are available for this mixture or ingredients

13. Disposal Considerations

RestrictionsThere are no product-specific restrictions, however, local council and resource

consent conditions may apply, including requirements of trade waste consents. Disposal of this product must comply with the requirements of the Resource

Management Act for which approval should be sought from the Regional

Authority. The substance must be treated and therefore rendered non-hazardous

before discharge to the environment.

Contaminated packaging Rinse containers with water before disposal. Preferably re-cycle container,

otherwise send to landfill or similar.

Disposal method

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14. Transport Information

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

substance for transport.

UN number: 1789 Proper shipping name: HYDROCHLORIC ACID

Class(es) 8, 6.1 Packing group: || Precautions: CORROSIVE, TOXIC Hazchem code: 2R

Limited quantities 50L

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR001557, Hydrochloric acid, >25% aqueous solution.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing >0.1L.

Labelling No removal of labels and/or decanting of product into other containers

can occur.

Emergency plan Required if > 100L is stored.

Approved handler Not required, an exemption applies: This substance must, if left unattended,

be secured so that a person cannot gain access to the substance unless

the person has a key or other device used for operating locks.

Tracking Not required.

Bunding & secondary Required if > 100L is stored.

containment

Signage Required if > 250L is stored in any one location.

Location test certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

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16. Other Information

Abbreviations

Approval HSR001557, Hydrochloric acid, >25% aqueous solution Controls, EPA. **Approval Code**

www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

EC50 Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a

test population (e.g. daphnia, fish species)

EPA Environmental Protection Agency

HAZCHEM Code Emergency action code of numbers and letters that provide information to

emergency services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). LD₅₀ LC₅₀

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test

population (usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

Prescribed Exposure Standard means a WES or a biological exposure standard PES

that is prescribed in a regulation, a safe work instrument or an approval under

HSNO (including group standards).

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period,

provided the TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work

day (usually 8 hours)

UEL Upper Explosive Limit **UN Number** United Nations Number

WFS Workplace Exposure Standard - The airborne concentration of a biological or

> chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's

breathing zone.

References

Unless otherwise stated comes from the EPA HSNO chemical classification Data

information database (CCID).

Classifications and controls assigned for specific ingredients (consolidated **EPA Transfer Gazettes**

gazette, 2004)

WES 2016 The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe

NZ and available on their web site – www.worksafe.govt.nz.

WES 2002 Workplace Exposure Standards published by the Occupational Safety and Health

> Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute

a PES.

Other References: Suppliers SDS

Review

Reason for review Date

November 2016 Not applicable - new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.