



**Section 1. Identification of the material and the supplier**

Product: Hydrochloric Acid  
Other Names: Muriatic Acid; Spirits of Salts  
Product Use: General chemical, for pH adjustments in swimming pools  
Restriction of Use: Refer to Section 15

New Zealand Supplier: Poolcare Ltd  
54A Hewletts Road  
Mount Maunganui  
Telephone: 07 575 8471

Australian Supplier: Focus Products Pty Ltd  
35 Morton Street  
Heathwood QLD, 4110

**Emergency Telephone:**  
New Zealand: **0800 764 766 (National Poison Centre)**  
Australia: **13 1126**

Date of SDS Preparation: 20 November 2018 v2

**Section 2. Hazards Identification**

**This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017**

**EPA Approval Code:** HSR001557

**Pictograms:**

Toxic Toxic Corrosive

Signal Word: **DANGER**

<b>HSNO Classification</b>	<b>Hazard Code</b>	<b>Hazard Statement</b>	<b>GHS Category</b>
6.1B (inh)	H330	Fatal if inhaled.	Acute Tox. 2
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.1D (dermal)	H312	Harmful in contact with skin.	Acute Tox. 4
8.1A	H290	May be corrosive to metals.	Met. Corr. 1
8.2B	H314	Causes severe skin burns and eye damage.	Skin Corr. 1B
8.3A	H318	Causes serious eye damage.	Eye Corr. 1
9.1D	H402	Harmful to aquatic life.	Aquatic Acute 3
9.3C	H433	Harmful to terrestrial vertebrates.	-

**Prevention Code      Prevention Statement**

P102	Keep out of reach of children.
P103	Read label before use.
P234	Keep only in original container.
P260	Do not breathe fumes, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P284	Wear respiratory protection.

**Response Code      Response Statement**

P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position 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.

**Storage Code      Storage Statement**

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

**Disposal Code      Disposal Statement**

P501	Dispose of according to Local Regulations or Authorities
------	--

**Section 3.      Composition / Information on Ingredients**

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Hydrogen Chloride Gas	34.5	7647-01-0
Water	30-60	7732-18-5

#### **Section 4. First Aid Measures**

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. Immediately call a POISON CENTER or doctor/physician.
If on Skin	If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.
If Swallowed	Do NOT induce vomiting. Rinse mouth. 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. doctor/physician if you feel unwell. Call a POISON CENTER or
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Immediately call a POISON CENTER or doctor/physician.

#### **Most important symptoms and effects, both acute and delayed Symptoms:**

Inhalation:	Fatal if inhaled. Breathing in mists or aerosols will produce respiratory irritation.
Ingestion:	Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Eyes.	Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
Skin:	Corrosive to skin - may cause skin burns.
Acute:	Exposure to high concentrations of the vapour or the acid as a mist may lead to lung damage including pulmonary oedema and emphysema. May result in dental discolouration and erosion and ulceration of the nose and mouth.
Treatment:	Treat symptomatically. Can cause corneal burns.

#### **Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Not flammable or combustible. However the product contributes to the combustion of other material. Flammable and explosive hydrogen gas may be formed on contact with metals. If involved in a fire, highly toxic fumes will be evolved. If safe to do so remove containers from path of the fire. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of decomposition
--------------------	--

<b>Hazards from decomposition products</b>	Decomposes on heating emitting toxic fumes.
<b>Suitable Extinguishing media</b>	Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
<b>Precautions for firefighters and special protective clothing</b>	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire.
<b>HAZCHEM CODE</b>	<b>2R</b>

## Section 6. Accidental Release Measures

### Personal precautions:

Use protective clothing as per Section 8. Clear area of all unprotected. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation.

### Environmental precautions:

Cover or dyke spill and prevent spreading. Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### Spill and Disposal procedures:

Use absorbent (soil, sand or other inert material). Dilute with water or carefully neutralise with soda ash or slaked lime. All water should be added by hose from a safe distance, as reaction is exothermic (gives off heat) and will increase release of vapour.

Wash to drain with excess water. For large spills notify emergency services.

Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water. Dispose of waste safely, according to Local Council regulations.

## Section 7. Handling and Storage

### Handling

- Read label before use.
- Keep only in original container.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Always add the acid to water, never the reverse.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8. • Wear respiratory protection.

### Storage

- Store locked up.
- Keep out of reach of children.
- Store in corrosive resistant container with a resistant inner liner.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in cool place and out of direct sunlight.
- Store away from incompatible materials described in Section 10.
- Store away from foodstuffs.
- Do not store in aluminium or galvanised containers.
- Keep containers closed when not in use - check regularly for leaks.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hydrogen chloride [7647-01-0]			Ceiling	5 ppm (7.5 mg/m <sup>3</sup> )

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

### Engineering Controls

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. If inhalation risk exists: Use with local exhaust ventilation or while wearing suitable mist respirator. Keep containers closed when not in use. Ensure an eye bath and safety shower are available and ready for use.

### Personal Protection Equipment



<b>Eyes</b>	Safety glasses with side shields (or goggles) and a face shield.
<b>Skin</b>	Wear overalls, full face shield, elbow-length impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots.
<b>Respiratory</b>	Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
<b>General</b>	Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Fuming liquid – Hydrosopic(absorbs water)
<b>Colour</b>	Clear, colourless to slightly yellow
<b>Odour</b>	Pungent odour
<b>Odour Threshold</b>	Not available
<b>pH 1% aqueous solution</b>	<1.0
<b>Boiling Point</b>	100° C
<b>Melting Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Product is not flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	0.13 kpa @ 739° C
<b>Vapour Density</b>	1.26
<b>Specific Gravity</b>	1.14 – 1.15
<b>Water Solubility</b>	Soluble in water ( exothermic- releases heat)

<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

### Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Corrosive to many metals with the liberation of extremely flammable hydrogen gas.
<b>Possibility of hazardous reactions</b>	Reacts with alkalis.hypochlorite liberating toxic chlorine gas. Reacts with oxidising agents and sodium
<b>Conditions to Avoid</b>	Avoid contact with foodstuffs.
<b>Incompatible Materials</b>	Incompatible with alkalis , oxidising agents , sodium hypochlorite , cyanides , and many metals .
<b>Hazardous Decomposition Products</b>	Will release toxic gas (Hydrogen chloride).

### Section 11 Toxicological Information

#### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed.diarrhoea, abdominal pain and chemical burns to the Swallowing can result in nausea, vomiting, gastrointestinal tract.
<b>Dermal</b>	Harmful if in contact with skin.
<b>Inhalation</b>	Fatal if inhaled.irritation. Breathing in mists or aerosols will produce respiratory
<b>Eye</b>	Causes serious eye damage.corneal burns. Contamination of the eyes can result in permanent Corrosive to eyes; contact can cause injury.
<b>Skin</b>	Causes skin burns. Contact with skin will result in severe irritation.

#### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

#### Individual component information: Acute

##### Toxicity:

<b>Chemical Name</b>	<b>Oral – LD50</b>	<b>Dermal – LD50</b>	<b>Inhalation – LC50</b>
Hydrochloric acid: (7647-01-0)	700 mg/kg (Rat)	1449 g/kg (mouse)	0.4 mg/L (mouse)

## Section 12. Ecotoxicological Information

HSNO Classes: 9.1D Harmful toxic to aquatic life.  
9.3C Toxic to terrestrial vertebrates.

Acute toxicity: Fish –LC50 Mosquito fish (female) 282 mg/L/24hr Aquatic invertebrate  
LC50 Shore Crab 240 mg/L/48hr  
LC50 Sand shrimp 260 mg/L/48hr

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

Avoid contaminating waterways.

## Section 13. Disposal Considerations

### Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste –Toxic, Corrosive, Ecotoxic" and that the label also has the Toxic, Corrosive and Ecotoxic Pictogram, waste type identifier, and the business name, address, and phone number.

**Precautions or methods to avoid:** Do not allow to enter waterways

## Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012



### Road and Rail Transport

UN No: 1789  
Class-primary 8  
Packing Group II  
Proper Shipping Name: HYDROCHLORIC ACID (>25%)

### Air Transport

UN No: 1789  
Class-primary 8  
Packing Group II  
Proper Shipping Name: HYDROCHLORIC ACID (>25%)

### Marine Transport

UN No: 1789  
Class-primary 8

Packing Group II  
 Proper Shipping Name: HYDROCHLORIC ACID (>25%)

**Limited Quantities Statement:**

If the product's individual container is below 1L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

**Section 15 Regulatory Information**

**This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017**

EPA Approval Code: HSR001557

HSNO Classification: 6.1B(inh), 6.1D(oral, dermal), 8.1A, 8.2B, 8.3A, 9.1D, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Exempt (as per additional and modified requirements for specified Class 6&8 substances, Safe Work Instrument 2017)
Location Certificate	250L (6.1B, 8.2B)
Signage Trigger Quantities (Schedule 3)	250L (6.1B, 8.2B)
Emergency Response Plan (Schedule 5)	250L (6.1B)
Secondary Containment (Schedule 5)	250L (6.1B)
Tracking (Schedule 26)	Not required
Restriction of Use	Use only as label directs
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 2	Certain substances restricted to workplaces only
HPC Notice Part 3	Hazardous substances in a place other than a workplace
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances

**Section 16 Other Information**

**Glossary**

ECEEL<sub>50</sub> Median effective concentration.Environmental Exposure Limit.

EPA Environmental Protection Authority HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LDLEL<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.Lower explosive level.

OSHA American Occupational Safety and Health Administration.

Product Name: Focus Hydrochloric Acid  
 Date of SDS: 20 November 2018

Prepared by: Technical Compliance Consultants (NZ) Ltd  
 Tel: 64 9 475 5240 www.techcomp.co.nz



TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the Focus Products, if further information is required.

Issue Date: 20 November 2018                      Review Date: 20 November 2023