

SAFETY DATA SHEET

Section 1: Identification of the Substance/Mixture and of the Supplier

Product Name:	
	Spirit of Salt
Proper Shipping Name	Hydrochloric Acid
Recommended use:	For pickling and heavy duty cleaning of metal parts
Company Details	Marketing Chemicals Ltd
Address:	2 Rymer Place, Mangere Bridge, Auckland
Telephone:	+64 9 634 3862 [8.00 am to 4.30pm – Monday to Friday]
Fax:	+64 9 634 3864
Emergency Telephone:	+64 274 736008(24 hours)
Date of preparation	National Poison Centre(24 hours): 0800 POISON [764 766] 1st November 2017

Section 2: Hazard Identification



DANGER

- Fatal if inhaled.
- Causes severe skin burns and eye damage.

Prevention:

- Keep out of reach of children.
- Do not breathe fume/gas.Use only outdoors or in a well-ventilated
- Wear respiratory protection as per section 8
- Read label before use.
- Wash hands thoroughly after handling.
- Wear protective gloves and eye/face protection

Section 3: Composition/Information on Ingredients

Name	% by Wt.	CAS Number
Hydrogen Chloride	25 - 28%	7647-01-0
Water	Balance	7732-18-5

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Section 4: First Aid Measures

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Eyes:	Immediately hold the eyes open and wash continuously for at least 15 minutes 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.
	• Transport to hospital or doctor without delay.
	• Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin:	Immediately flush body and clothes with large amounts of water, using safety shower if available.
	• Quickly remove all contaminated clothing, including footwear.
	• Wash affected areas with water (and soap if available) for at least 15 minutes.
	• Transport to hospital, or doctor.
	Ingestion: Rinse mouth
	out with plenty of water.
Inhalation:	If fumes or combustion products are inhaled: Remove to fresh air.
	• Lay patient down. Keep warm and rested.
	• If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR ifnecessary.
	• Transport to hospital, or doctor.
For Further Information	Telephone (24 Hours) The National Poison Centre: 0800 Poison [764 766]
Fire	Extreme heat or contact with metals can release flammable hydrogen gas.
Explosion	Not considered to be an explosion hazard.
Extinguishing Media:	Use water spray. Neutralize with soda ash or slaked lime.
Fire Fighting Instructions:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving hydrochloric acid. Stay away from ends of tanks. Cool tanks with water spray until wellafter fire is out.
Unusual Fire and ExplosionH	lazards:
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Section 6: Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recoverliquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

Section 7: Handling And Storage

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials. Donot wash out container and use it for other purposes. When diluting, the acid should always be added slowly to water and in small amounts. Never use hot water and never add water to the acid. Water added to acid can cause uncontrolled boiling and splashing. When opening metal containers, use non-sparkingtools because of the possibility of hydrogen gas being present. Containers of this material may behazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Eye / Face Protection:	Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities inwork area.
Body Protection:	Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.
Respiratory Protection:	If the exposure limit is exceeded, a full facepiece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.
Exposure Limits:	- OSHA Permissible Exposure Limit (PEL): 5 ppm (Ceiling)
	- ACGIH Threshold Limit Value (TLV):2 ppm (Ceiling)
	Not classifiable as a human carcinogen
Appearance	Colorless, fuming liquid.
Odour	Pungent odor of hydrogen chloride.
Specific Gravity	1.18
Vapour Pressure (mm Hg)	190 @ 25C
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Vapour Density	Not available	
Solubility in water	Infinite in water with slight evolution	n of heat.
% Volatiles	100	
Evaporation Rate	Not available	
рН	For HCL solutions: 0.1 (1.0 N), 1.1	(0.1 N), 2.02 (0.01 N)
Stability of the Substance:	Stable under ordinary conditions of burst when heated.	use and storage. Containers may
Conditions to avoid:	Heat, direct sunlight.	
Materials to avoid:	amines, carbonates and other alkaliner sulfides, sulfites, and formaldehyde.	tive with strong bases, metals, metal oxides, hydroxides, naterials. Incompatible with materials such as cyanides,
Hazardous Decomposition Products:	When heated to decomposition, emit and will react with water or steam t corrosive fumes. Thermal oxidative chlorine fumes and explosive hydro	to produce heat and toxic and decomposition produces toxic
Conditions Contributing to Hazardous Polymerization	Will not occur.	
Eyes:	SPECIES: RESULT: Corrosive	
Skin:	SPECIES:	
	RESULT: Corrosive; UN CLASS: 8	PG II
Ingestion:	SPECIES: Rat ;ENDPOINT: LD50 VALUE: 700 mg/kg	
Inhalation:	Inhalation Form: ;SPECIES: Mouse VALUE: 3.2 mg/l	; ENDPOINT: LC50
SPECIES: Lepomis macrochiru		
TYPE OF EXPOSURE: Semist	atic.	
RESULT: The LC50 (24h, 48h	and 96h) for HCl was between pH 3.5	5 and 3.25.
SPECIES: Daphnia magna (Cru		
I YPE OF EXPOSURE:;DURA	ATION: 72 hr;ENDPOINT: LC80;VAI	LUE: 56 mg/l
SPECIES: Rat ;ENDPOINT: LI	D50 ;VALUE: 700 mg/kg bw	
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Dispose through Licensed Disposal Company

Section 14:	Transport Information
UN No:	UN1789
Proper Shipping Name:	HYDROCHLORIC ACID
Dangerous Goods Class	: 8
Subsidiary risk	
Packing Group:	II
Hazchem Code:	
HSNO Approval No:	HSR001557
Group Standard:	
HSNO Classes:	8.1A, 8.2B, 8.3A, 9.1D, 9.3C

Section 16: Other Information

New Zealand National Poison Information Centre (24 hours): 0800 POISON [764 766]New Zealand Emergency Services: 111

For General Information: John Crombie, Manager, Marketing Chemicals Ltd, Phone: +64 (09) 634 3862 / +64 (0)27 473 6008 Fax : +64 (09) 634 3864

Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

End of Safety Data Sheet.

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