



SAFETY DATA SHEET

ZERO FUME POOL ACID

Issue Date: 25/8/2023
Issued by : BOND CHEMICALS Pty Ltd

1. IDENTIFICATION

GHS Product Identifier
ZERO FUME POOL ACID

Equivalent to Hydrochloric Acid 20%

Company Name
BOND CHEMICALS Pty Ltd (ABN 491 505 672 67)

Address
23 Otterington Grove, Ivanhoe East
Victoria 3079. Australia

Telephone
0429 625 750

Emergency Contact Name
Manufacturing Manager, Bond Chemicals Pty Ltd

E-mail Address
maxbradbury6@bigpond.com

Recommended use of the chemical and restrictions on use
For pH adjustment in pools and spas.

2. HAZARD IDENTIFICATION

GHS classification of substance/mixture

Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail; 7.7 edition.*

Classified as a Hazardous Chemical according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)* including Work, Health and Safety Regulations, Australia.

Serious Eye Damage/Irritation; Category 1

Skin Corrosion/Irritation; Category 1, Sub-category B

Corrosive to metals; Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation

Precautionary Statement (s)

P102 Keep out of the reach of children
P103 Read label before use.

Pictogram (s)**Precautionary Statement – Prevention**

P104 Read Safety Data Sheet before use.
P234 Keep only in original container
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breath mist, spray.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P271 Use only outdoors or in a well ventilated area.

Precautionary Statement – Response

P301+P330+P333 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.
P301+P312 IF SWALLOWED: Call a POISON Centre or doctor/physician if you feel unwell.
P303+P361+P353+P363 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes, immediately call a POISON CENTRE or doctor/physician.

Precautionary Statement - Storage

P405: Keep locked up when not in use.
P406: Store in a corrosion resistant container or in a container with a corrosion resistant liner.

Precautionary Statement – Disposal

Dispose of contents/container in accord with State, Territorial or Commonwealth regulations.
Dispose of triple rinsed empty containers to plastics recycle system, or general waste disposal system.

Other Information

In Australia and New Zealand, the POISONS CENTRE is the Poisons Information Centre; Australia: Telephone 13 11 26; New Zealand Telephone 0800 764 766

Other hazards which do not result in classification:-

Poison Schedule (SUSMP) 5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Water	7732-18-5	To 100%
Hydrogen Chloride	7647-01-0	Mix <=20% HCl
Sulphuric Acid	7664-93-9	Proprietary information

Mix of Hydrochloric and Sulphuric acids to give strength equivalent to 20% HCl

4. FIRST – AID MEASURES

Inhalation

Move people from contaminated area immediately, but avoid injury to yourself. Observe patient(s). If patient(s) not breathing, apply artificial respiration. If breathing is difficult, oxygen can be given by a suitably trained/qualified person. Obtain medical attention or transport to a hospital promptly.

Ingestion

Never give fluid by mouth or induce vomiting if patient is unconscious or having convulsions. If swallowed do not induce vomiting. If conscious and alert give one glass of water to rinse mouth but do not swallow. Give another glass of water to drink. Obtain medical attention promptly and/or transfer to an emergency hospital.

Skin

If on skin and/or hair contact occurs, remove contaminated clothing and foot wear and flush skin and hair with running water. Seek medical attention immediately or transfer to an emergency hospital. Wash contaminated clothing thoroughly before re-use.

Eye

If in eyes, hold eyelids apart, and flush the eye continuously with running water. Remove contact lenses, if fitted, before flushing with water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor, or for at least 15 minutes. Promptly contact a Doctor and/or transport to an emergency hospital.

First Aid Facilities

An eye wash unit, a shower and drinking quality water should be readily accessible in the work area for swimming pool and spa cleaning contractors or be adjacent to the swimming pool or spa in the recreational environment. Mild soap should be available to aid washing of the skin.

Advice to Doctor

No antidote available. Treat symptomatically and supportively. Chemical burns should be treated by a Doctor. Product is corrosive to tissue, mucous membranes, throat, gastrointestinal tract. If swallowed may cause burns to lips, mouth, upper respiratory tract and digestive tract.

Indication of immediate medical attention and special treatment if necessary

For advice, contact Poisons Information Centre, Phone Australia 13 11 26; New Zealand: 0800 764 766 or a Doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for the source of the fire. Apply water fog or water spray to keep intact containers cool and for a short period after the fire source is extinguished. DO NOT water fog or water spray to split or damaged containers.

Specific Methods

Remove sealed containers from the path of the fire if safe to do so. If not, keep fire exposed containers cool with water spray. Operate upwind of the containers and out of the path of the fire.

Specific Hazards Arising from the Chemical

None expected as the product is neither flammable or combustible. Sealed containers exposed to heat of a fire may rupture releasing a corrosive solution as a spray, and hydrogen chloride from the decomposition of the product.

Hazchem Code

2R

Precautions in connection with Fire

Firefighters should wear full protective equipment and other equipment such as self-contained breathing apparatus appropriate to the major source of fire and the potential release of hydrogen chloride gas if product containers rupture.

6. ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Cleaning Up

Remove unnecessary people from spill area. Wear appropriate protective clothing and contain spill with soil, sand or vermiculite to prevent entry into drains, sewers, water courses and water storages. Do NOT use sawdust or other cellulose based materials. Collect spilled material if possible, otherwise soak up in an inert absorbent material and collect in labelled containers for disposal. Residual spilled product can be neutralized with lime or soda ash. Wash residual materials from spill scene/area with plenty of water.

Environmental Precautions

DO NOT allow entry into water courses, drains or sewers.

Advise local authorities if spillage is likely to enter or has entered water courses or drains.

7. STORAGE AND HANDLING

Precautions for Safe Handling

NOTE WELL. Product is a corrosive liquid. Do not get in eyes, on skin or on clothing. Do not breathe vapour, mist or gas. Product will irritate eyes, nose, throat and skin. Discard contaminated footwear. Use clean containers for dispensing. Mix with water only.

Conditions for safe storage, including any incompatibilities

Store under cover in a dry, clean, cool, well ventilated place away from sunlight, food, food stuffs, oxidizing agents, alkalis, cyanides, hypochlorites, metals. Store in upright containers. Ensure that container is closed when not in use.

Storage Regulations

Store in accordance with Dangerous Goods (Storage and Handling) regulations of your jurisdiction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Hydrochloric Acid decomposes to hydrogen chloride if strongly heated. Under normal storage and handling conditions no hazardous decomposition products are released. A National Exposure Standard (NES)* has not been established by the SWA* for hydrogen chloride.

For hydrogen chloride, the NES is 5ppm or 7.5 mg/m³, Peak limitation, where a peak limitation is the maximum atmospheric concentration determined over the shortest, analytically practicable period of time not exceeding 15 minutes.

Appropriate Engineering Controls

A system of local and/or general exhaust ventilation is recommended in the workplace to keep exposure levels below the National Exposure Standard for hydrogen chloride. For recreational use, ensure that ventilation in closed spaces is adequate and maintained to reduce inhalation exposure potential when handling and using this product.

Respiratory Protection

For recreational use, ensure that the product is used in a well-ventilated space. In the workplace if exposure limit is exceeded and engineering controls are not practicable a full face, air-purifying (acid gas) respirator may be used. Where atmospheric concentrations are unknown wear a full

face, positive-pressure air supplied respirator. Select and fit approved respirators according to AS/NZS 1715* and AS/NZS 1716*.

Eye Protection

Wear approved chemical goggles. In the workplace environment eye protection complying with AS/NZS 1337* should be worn to protect against splashes and droplets of the product from entering the eye. Guidance to recommended practices for eye protection in the industrial environment is provided in AS/NZS 1336*. Ensure that the eye wash facility is readily available and accessible in the workplace.

Body Protection

For recreational use wear protective gloves, long sleeves, foot and eye protection to minimize exposure to the corrosive chemical.

In the workplace personnel handling and using this product are recommended to wear long sleeved body covering clothing, protective gloves e.g. PVC coated gloves, eye protection (see above), PVC apron and for some operations 'rubber' or PVC footwear. Selection of protective clothing can be guided by reference to AS/NZS 4501*.

Remove contaminated clothing promptly. Wash contaminated clothing before re-use.

Hygiene Measures

It is good practice, both in the recreational area and the workplace, to avoid eye and skin contact, and avoid breathing mists or sprays of this product.

In addition it is a good practice to wash face, hands and arms before eating, drinking or smoking after using this product or at the end of a work period.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR/YELLOW LIQUID	Solubility (Water)	SOLUBLE
Odour	No Odour	Specific Gravity	1.23 at 20 deg C
Boiling Point	90.5 Deg	Freezing Point	-50 deg C
pH	<1	Vapour Pressure	Very Low
Flash Point	NOT APPLICABLE	Flammability	NOT FLAMMABLE
Auto Ignition Temp	NOT APPLICABLE	Flammable Limit Lower	NOT APPLICABLE
Flammable Limit Upper	NOT APPLICABLE		

10. STABILITY AND REACTIVITY

Reactivity

Contact with alkalis liberates heat.

Contact with metals may result in liberation of flammable hydrogen gas

Chemical Stability

Stable under normal conditions.

Conditions to avoid

Contact with other chemicals and food stuffs.

Incompatible Materials

Incompatible with alkalis including ammonia, cyanides, hypochlorites, most metals. DO NOT mix with different types of chlorinating compounds or chlorine gas may be evolved.

Hazardous Decomposition Products

Hydrogen Chloride gas evolved on heating

Possibility of hazardous reactions

Evolves toxic chlorine gas if mixed with chlorine containing compounds.

Flammable hydrogen gas may be evolved if contact is made with most metals.

Hazardous Polymerization

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

There is **no specific numerical toxicological** information available for this product.

Skin irritation:	Contact causes severe skin irritation and possible burns.
Eye Irritation:	Corrosive to the eyes and may cause severe damage including blindness
Ingestion:	CORROSIVE LIQUID. Irritating to mucous membranes and other tissues. Will cause severe irritation and potential burns to throat (gullet) and stomach. May cause nausea and vomiting.
Inhalation	Inhalation of mists of product will cause severe irritation of mucous membranes of respiratory tract..
Chronic Effects	Prolonged or frequent exposure to low levels of hydrochloric acid may result in teeth erosion and ulceration of the nasal passages.

12. ECOLOGICAL INFORMATION

Ecological information

There is no specific information for this product.

Known Harmful Effects on the Environment

Very toxic to aquatic life.

Environmental Protection

Toxic to aquatic organisms. Avoid contamination of watercourse and water storages, drains, and/or sewers.

Advise local authorities if spill of product is likely to or has entered watercourses, drains and/or sewers.

13. DISPOSAL CONSIDERATION

Waste Disposal

Dispose of waste materials in accordance with relevant state, territorial or Commonwealth waste disposal regulations.

Container Disposal

Triple rinse 'empty' containers with water. Return rinsed containers to plastic recycle system or include in general waste disposal system. In recreational usage triple rinse containers with pool or spa water before disposal. DO NOT use "empty" or rinsed containers for storage or packaging of other liquids or foodstuffs.

14. TRANSPORT INFORMATION

Transport Information

Product is a DANGEROUS GOOD (DG), Class 8 – CORROSIVE for transport by road, rail, sea or air. Road and rail should be in accord with the current edition of the ADG code* and statutory regulations.

Product is incompatible in a transport load containing Chlorinating agents (Hypochlorites), Cyanides, Alkalis, Radioactive goods and is incompatible with food and food packaging in any quantity.

U.N. Number 3264

UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, NOS

Transport hazard class (es)

Class 8

Packing Group III

Hazchem Code 2X

15. REGULATION INFORMATION

Regulatory information

Product is classified as a DANGEROUS GOOD (see above).

Product is classified as a hazardous chemical – SKIN CORROSION/IRRITATION, as acute hazard according to the Globally Harmonised System for Classification and Labelling of Hazardous Chemicals.*

Poisons Schedule

S5

Packaging and Labelling

Product label as compiled, based on GHS requirements.

Australia (ACIS)

Principal active components of this product are included in the Australian Inventory of Chemical Substances (AICS)*

16. OTHER INFORMATION

Date of preparation or last revision of SDS

Safety Data Sheet (SDS) issued on March 1, 2023. SDS is prepared in compliance with the National Code of Practice for Preparation of SDS*.

References

- *Agricultural and Veterinary Chemicals Code (Listed Chemical products – Home Swimming Pool and Spa Products) Standard 2014. APVMA
- * APVMA = Australian Pesticide and Veterinary Medicine Authority.
- *GHS = Globally Harmonised System for the classification and labelling Hazardous Chemicals. United Nations Publication.
- *ADG = Australian Dangerous Goods Code 7.7 Edition 2020
- *NES = National Exposure Standard = Exposure Standards for Atmospheric Contaminants in the Occupational Environment in Exposure Standard section of HSIS, as amended.
- *HCIS = Hazardous Chemicals Information System, maintained by SWA
- *SWA = Safe Work Australia
- *AS = Australian Standard
- *NZS = New Zealand Standard
- *AS/NZS 1716: Respiratory protective devices.
- *AS/NZS 1715: Selection, use and maintenance of respiratory protective devices
- *AS/NZS 1337: Eye protectors for Industrial Applications
- *AS/NZS 1336: Recommended practices for eye protection in the Industrial Environment
- *AS/NZS 4501: Protective Clothing – Protection against Chemicals
- *National Poisons Standard (Standard for the Uniform Scheduling of Medicines and Poisons,) Therapeutics Goods Authority. Refer to Commlaw website.
- *AICS = Australian Inventory of Chemical Substances maintained by National Industrial Chemicals Notification and Assessment Scheme.

*National Model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, Safe Work Australia.

Contact Person/Point

BUSINESS HOURS: Product Information Officer, 0429 625 750

This SDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product. Each user must review this SDS in the context of how the product will be handled and used. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

As far as lawfully possible, Bond Chemicals Pty Ltd accepts 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.

END OF SDS