



Safety Data Sheet

According to CFR1910/1200 and GHS Rev.10

Effective Date: 22 January 2024

Product Name: Hydrochloric acid 32%

Classified for physical and health hazards under GHS.

SECTION 1: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

Product Name	Hydrochloric acid 32%
Other Names	None
CAS No.	7647-01-0
Product Code & Size	20LH32- 20 litre
Recommended Uses	Industrial Water treatment
Company Name	Viva Blu Chemical Suppliers
Address	49 Victoria Street, Windsor, QLD, 4030
Phone	+61 402 981 808
Emergency Contact Number	+61 402 981 808 General Information
24 Hour Emergency Contact	If poisoning occurs, contact a doctor or Poisons Information Centre Australia 131 126 or New Zealand 0800 764 766

SECTION 2: HAZARDS IDENTIFICATION

Classification	Hazardous chemical according to GHS (Globally Harmonized System)
Hazard Category	
Category 1	Corrosive to metals
Category 1B	Skin corrosion/ irritation

Category 1 Serious eye damage/ irritation

Category 3 Specific Target Organ Toxicity (Single Exposure)



Signal word: Danger

Hazard Statements

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

H433: Harmful to terrestrial vertebrates

Precautionary statements

P260: Do not breathe fume/ mist/ vapours/ spray

P271: Use only outdoors or in well- ventilated area

P280: Wear protective gloves, clothing/ eye protection/ face protection

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P310: Immediately call a POISON CENTER or doctor

P303+P361+P353: IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/ shower

P304+P340 IF INHALED: Remove person to fresh air and keep 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

P363: Wash contaminated clothing before use

P390: Absorb spillage to prevent material damage

P403+ P233: Store in well- ventilated place. Keep container tightly closed

P405: Store locked up

P406: Store in corrosive resistant container with resistant inner liner

P501: Dispose of contents/container in accordance with local, regional, national, international regulations

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportions
Hydrochloric acid	1310-73-2	32%
Water	7732-18-5	68%

SECTION 4: FIRST AID MEASURES

Swallowed	Drink plenty of water to dilute the substance. Do NOT induce vomiting. Immediately seek medical attention for advice. If vomiting, ensure free airway and prevent aspiration. Keep the person calm. Follow DRSABCD if necessary.
Eye	Rinse with plenty of water at least for 15 minutes. Remove contact lenses if present and easy to do. Immediately seek medical attention for advice. Follow DRSABCD if necessary.
Skin	Remove contaminated clothing and shoes and wash before re-use. Wash affected areas with plenty of water immediately. Immediately seek medical attention for advice. Follow DRSABCD if necessary.
Inhaled	Move exposed individual to a comfortable breathing position and exposure to fresh air. Loosen clothing for better breathing. Follow DRSABCD if necessary.
Advice to Doctor	Corrosive effects on the skin and eyes may be delayed up to 48h after exposure. Treat symptomatically based on individual reactions of patient and judgement of doctor.

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

Most important symptoms and effect, both acute and delayed

Irritation, burns, shortness of breath and more.

Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammability Conditions	Product is not combustible and does not burn, but fire or heat will produce irritating, poisonous, and or corrosive fumes.
Extinguishing Media	Use extinguishing media most appropriate for the surrounding fire. For example, dry chemical, CO2 or water spray.

Hazards Products of Combustion Can produce toxic fumes in fire including chlorine.

General information Water spray may be used to knock down the gases/ fumes/ mist/ vapours.

Special Protective Precautions & Equipment for Fire fighters' Protective equipment

Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment. Structural firefighter's uniform is not effective for these materials.

Hachem Code 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and Emergency Procedures

Always wear protective equipment when handling the substance and ensure adequate ventilation. Keep unprotected people away. Avoid breathing vapour and contact with eyes and skin.

Eliminate all sources of ignition. Do not allow product to reach drains, sewers, or waterways. If the product does enter a waterway, advise the Environment Protection Authority or your local Waste Management. Do not touch damaged containers or spilled substances. Keep people away from exposure area at least 250m.

Environmental precautions Prevent from reaching drains, sewers, or waterways. Collect contaminated soil for characterization per section 13. Small spillages may be washed with plenty of water.

Methods and Materials for Containment and Clean Up

Wear protective clothing. Clean up spill by covering with dry earth and or non- combustible material (to neutralize use lime, limestone, sodium carbonate, sodium bicarbonate and diluted sodium hydroxide) followed by plastic sheet to minimize spreading. to a suitable, labeled waste container and hold for safe disposal. Spray water to knock down the fumes. Wash spill area with plenty of water after removing the spill. If necessary, use trained response staff/contractor.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Ensure an eye and safety shower are available and ready for use in case of an emergency. To avoid contact with eyes, skin and clothing, wear protective clothing, safety glasses and or face protection. Do not breathe vapours. Follow good hygiene procedures when handling substances. Do not eat, drink, smoke or use personal products when handling substances. Use only in well-ventilated areas. Collect spillage. When preparing solution, add acid to water in small amounts to avoid boiling and splattering.

Conditions for Safe Storage including and incompatibilities

Store in a cool (out of direct sunlight), well-ventilated and dry place. Keep container tightly closed and in its original packaging. Keep away from heat and sources of ignition. Avoid physical damage to containers. Store locked up. Store on an acid resistant floor and avoid spread due to leaking containers.

Container Type

Store in original packaging as approved by manufacturer. (PVC/FRP container with safety relief valve)

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters

Hydrochloric acid 5ppm (7.5mg/m³) peak limitation according to Australia Workplace Exposure Standards. Immediately dangerous to life or health concentration: 50ppm.

Appropriate Engineering Controls

Preferent use local exhaust ventilation to minimise the exposures. Electrical equipment should be flameproof and protected against corrosive action.

Respiratory Protection

Use suitable respiratory protective equipment when inadequate ventilation or where risk assessment shows air-purifying respirators are appropriate.

Protection of skin

Appropriate personal equipment is required like protective overalls, safety footwear and gloves.

Eye Protection

Safety Glasses and face shield have to be worn at all times.

Work hygiene practices

Do not eat, drink or smoke when using the substance. Handle in accordance with good industrial hygiene and safety practice. Wash hands and exposed area after handling.

Biological Values No information available

Exposure Limits No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless liquid
Odor	Pungent
Vapor Pressure	No data available
Vapor Density	No data available
Boiling Point	81.5 bis 110°C
Melting Point	-52 °C
Solubilities	Soluble in water
Density	1.12 g/cm ³ at 20°C
Flash Point	Not applicable
pH	<1 (neat)
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Ignition Temperature	No data available
Specific Heat Value	No data available
Viscosity, kinematic	1.73 mm ² /s at 20°C
Volatile Organic Compounds	Not applicable
Evaporation Rate	Not applicable
Viscosity	No data available
Percent Volatile	No data available
Octanol/Water partition coefficient	Not applicable
Saturated Vapor Concentration	No data available
Additional Characteristics	No data available
Flame Propagation/Burning rate of Solid Material	No data available
Reactions that release flammable Gases	Can produce toxic chloride fumes
Chemical formula	HCl

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability Stable at recommended storage conditions.

Incompatible Materials Strong mineral acid, strong bases, metals, metal oxides, hydroxides, amines, carbonates, other alkaline materials.

Hazardous Decomposition products Hydrogen chloride fumes by heat, hydrogen gas by contact with metals.

Possibility of hazardous reactions May react violently with oxidising agents and liberating chlorine. Release of toxic gases by heat. In contact with water or other compounds, reaction may generate enough heat to ignite combustible materials. In contact with metals, reaction may produce flammable and explosive hydrogen gas.

Hazardous Polymerisation When correct storage and handling, no dangerous reactions.

Conditions to avoid Keep away from heat and sources of ignition.

SECTION 11: TOXICOLOGICAL INFORMATION

General information:

Acute Ingestion	Acute toxicity (oral) LD50, rats (female) 238-277 mg/kg Causes immediate corrosion and damage to the gastrointestinal tract.
Eye Corrosion/ Irritation	Causes serious eye damage and may cause permanent damage
Respiratory/ skin Irritation	No information available
Single Target Organ Toxicity (STOT) single expose	May cause respiratory irritation.
Single Target Organ Toxicity (STOT) repeat expose	No information available
Carcinogenicity	None
Gem Mutagenicity	None
Reproductive Toxicity	No information available
Aspiration toxicity	No information available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Toxicity to fish: LC50- Gambusia affinis 282mg/L 96h
Toxicity to daphnia (water flea): EC50- 56mg/L 72h

Environmental fate	Toxic to aquatic life
Persistence/ degradability	No information available
Mobility in Soil	No information available
Bioaccumulation Potential	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal	Disposal in accordance with regional, national and international regulations.
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SECTION 14: TRANSPORT INFORMATION

UN Number	1789
Shipping Name	Hydrochloric acid
Dangerous Goods Class	8
Subsidiary Risk	No data available
Pack Group	II
EMS	F-A, S-B
EPG	40 Toxic and or corrosive substances Non-combustible, water reactive
Hazchem Code	2R
Special precautions for user	Refer to SDS

SECTION 15: REGULATORY INFORMATION

Poisons Schedule (AUST)	6
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SECTION 16: CONTACT INFORMATION

Any advice, recommendation, information, assistance, or service provided by Viva Blu in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer of any liability on the part of Viva Blu. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by stature, common law, custom of the trade otherwise, are to the extent that the law permits expressly excluded.

Craig Mair
Managing Director

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