

SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: HYDROCHLORIC ACID LA351

Synonyms: Hydrochloric acid solution; Muriatic Acid; Spirits of salts.

Use: Acid used for derusting and descaling various metal and non metal surfaces.

Supplier: Advance Chemicals

ABN: 61 005 625 025

Street Address: 4 – 8 Malton Court Altona, 3018

Telephone Number: (03) 9398 4444

Emergency Telephone: Ted Powell (03) 9398 4444 (Business Hours)
0425 800 022 (After Hours)

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 7th Revised Edition.

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

Classification of the substance or mixture:

Acute toxicity (inhalation) – category 3

Skin Corrosion – category 1A

SIGNAL WORD: DANGER



Hazard Statement(s):

H331 – Toxic if inhaled

H314 – Causes severe skin burns and eye damage.

Precautionary Statement(s):

Prevention:

P102 Keep out of reach of children.

P103 Read label before use.

P104 Read Safety Data Sheet before use.

P260 – Do not breathe mist/vapour/spray

P264 – Wash hands thoroughly after handling

P280 - Wear protective gloves/eye protection/ face protection.

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P271 – Use only outdoors or in a well-ventilated area.

Response:

P301 + P3330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P363 – Wash contaminated clothing before re-use

P321 – Specific treatment (see First Aid Measures on Safety Data Sheet)

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 – Immediately call a POISON CENTRE (131126) or doctor/physician if you feel unwell

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:

P405 – Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container in accordance with local waste management authority.

Poison Schedule (Australia): 6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	
Hydrochloric Acid	7647-01-0	25 – 36%	R34, R37

4. FIRST AID MEASURES

Inhalation: Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation. SEEK MEDICAL ATTENTION.

Skin Contact: Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. SEEK MEDICAL ATTENTION.

Eye Contact: If contact with eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse into the non-affected eye. SEEK IMMEDIATE MEDICAL ATTENTION.

Ingestion: Immediately wash out mouth with water and then give plenty of water to drink. SEEK IMMEDIATE MEDICAL ATTENTION.

Notes to Doctor: Treat symptomatically as for strong acids.

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5. FIRE FIGHTING MEASURES

Specific Hazards: Heating can cause expansion or decomposition leading to violent rupture of containers. The product is strongly acid and hence may react with metals to produce hydrogen, a flammable gas. Decomposes to form hydrogen chloride.

Fire-fighting advice: Wear self-contained breathing apparatus (S.C.B.A) and full protective clothing to minimise skin exposure.

Suitable Extinguishing Media: Water fog, foam or dry chemical powder.

Hazchem Code: 2R

Flammability: Non flammable. Contact with strong alkalis may generate heat.

6. ACCIDENTAL RELEASE MEASURES

Clear area of all unprotected personnel. Contain- prevent contamination of drains and waterways. Use absorbent (soil or sand, sawdust, inert material, vermiculite). Collect and seal in properly labelled drums for disposal. Neutralise remaining product with lime or soda ash, adjusting pH to 6 – 10. Flush to sewer as a greatly diluted solution. Wear full protective clothing. Self contained breathing apparatus may be needed for prolonged periods of exposure.

7. HANDLING AND STORAGE

Handling advice: Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking, smoking or using the toilet.

Storage advice: Store in a cool place and out of direct sunlight. Store in a well ventilated area. Store away from oxidising agents. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Care should be taken especially where the material may be stored or used in glass vessels.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits:

	STEL (mg/m ³)	STEL (ppm)	TWA (mg/m ³)	TWA (ppm)
HYDROCHLORIC ACID			7.5	5

Engineering Controls: Maintain concentration below recommended exposure limit. Use with adequate ventilation. Local exhaust ventilation usually required. Keep containers in a well ventilated area.

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Personal Protection Equipment: Wear appropriated respirator where ventilation is inadequate and vapour or mist is generated. The use of facesheild, chemical goggles or safety glasses with side shield protection is recommended. The use of gloves is recommended and where possible contamination of clothes will occur as plastic splash apron, sleeves, overalls and rubber boots is strongly recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to yellow, clear liquid, characteristic fumes. Tendency to fume at higher concentrations.

Boiling Point: 108.6°C

Melting Point: -46.2°C

Flash Point: Not applicable

Vapour Pressure: 17.8mHg at 20°C

Vapour Density (Air = 1): Not applicable

Flammability Limits: Not applicable

Specific Gravity: 1.16

pH: < 1

Solubility in water: Soluble

Corrosiveness: Corrosive

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Health Effects:

Ingested: May be harmful if swallowed. Will cause severe irritation and chemical burns to the mouth, oesophagus and stomach.

Eye: Corrosive to eyes. Contamination of eyes can result in permanent injury.

Skin: Corrosive to skin- may cause burns. Contact with skin will result in severe irritation.

Inhaled: High concentrations of vapours will cause irritation. The vapour is an irritant to the mucous membranes and respiratory tract. Possible harmful corrosive effects.

Chronic: Prolonged exposure may cause bronchitis, pneumonia and pulmonary oedema.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

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13. DISPOSAL CONSIDERATIONS

Refer to Waste Management authority.

14. TRANSPORT INFORMATION

UN Number: 1789

Proper Shipping Name: HYDROCHLORIC ACID

Dangerous Goods Class: 8

Subsidiary risk: N/A

Packing Group: II

Hazchem Code: 2R

Road and Rail Transport: Classified as Class 8 (Corrosive) Dangerous goods for the purpose of transport via road and rail.



15. REGULATORY INFORMATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

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Poisons Schedule: 6

16. OTHER INFORMATION

This M.S.D.S. is valid for 5 years from the date of issue but may be withdrawn and revised anytime prior to that date. Please ensure that you are using the latest issue.

All information contained in this Material Safety Data Sheet is as accurate and up-to-date as possible. Since ADVANCE CHEMICALS can not anticipate or control the conditions under which this information can be used, each user should review this information in the specific context of the intended application.

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