CHEMICAL







CTS HOUSE
19 HARBOUR COURT
9 HERON ROAD
BELFAST
BT3 9HB

SAFETY DATA SHEET HYDROCHLORIC ACID 28% TECHNICAL

1. IDENTIFICATION OF CHEMICAL

Chemical name: HYDROCHLORIC ACID 28% TECHNICAL

CAS number: 7647-01-0 EINECS number: 231-595-7

2. COMPOSITION

Composition: 28% w/w hydrochloric acid.

3. HAZARD IDENTIFICATION

Main hazards: Causes severe burns. Irritating to the respiratory system.

4. FIRST-AID MEASURES

Skin contact: In case of skin contact, flood the splashed area with large quantities of

running water

Eye contact: If the substance has entered the eyes, wash out with water or saline solution

for at least 15 minutes.

Ingestion: If the chemical has been confined to the mouth, give large quantities of water

as a mouth wash. Ensure the mouth wash is not swallowed. If the chemical has been swallowed, give about 250ml water to dilute it in the stomach. In

severe cases seek medical attention.

Inhalation: Remove the casualty out of the danger area after first ensuring your own

safety. Loosen the patient's clothing. If the casualty is unconscious, place in the recovery position and monitor breathing. Apply artificial respiration only if patient is not breathing. Seek medical attention when anyone has symptoms

apparently due to swallowing or inhalation.

5. FIRE-FIGHTING MEASURES

Exposure hazards: Wear self-contained breathing apparatus and protective clothing to prevent

contact with skin and eyes. Material is not combustible. If involved in a fire

it decomposes to emit toxic fumes of hydrogen chloride gas.

Suitable extinguisher: Use waterspray to cool fire-exposed containers. Use extinguishing media

appropriate to the surrounding fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear self-contained breathing apparatus, rubber boots and heavy rubber

gloves.

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Leaks & spills: Sweep up spilled substance but avoid making dust. Transfer to a closable

salvage container for disposal by an appropriate method or retain for recovery.

Clean-up procedures: Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Wear a respirator in non-ventilated areas and chemical safety goggles. Avoid

prolonged contact or inhalation.

Storage precautions: Keep containers tightly closed. Store in a cool dry area. This material reacts

violently with water. May develop pressure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection: Wear appropriate protective clothing.

Exposure limits: 5 ppm $(7 \text{ mg/m}^3) - 8 \text{ hout TWA: 5 ppm } (7 \text{ mg/m}^3) - 15 \text{ min.}$

Type: ORL-RBT LD50

Toxicity: 900 mg/kg

9. PHYSICAL AND CHEMICALS PROPERTIES

Chemical formula: HCl

Appearance and odour: Clear colourless liquid.

Vapour pressure: 190 mm 25°C

Relative density: 1.3

10. STABILITY AND REACTIVITY

Avoid contact with: Water, bases, amines, alkali metals, copper, copper alloys and aluminium.

11. TOXICOLOGY INFORMATION

Health effect: Skin: The liquid is extremely destructive to skin tissue. In contact with skin this

substance causes severe burns accompanied by blistering and peeling.

Eyes: The liquid is extremely destructive to eyes. In severe cases it will cause

corneal burns which may result in impairment or loss of sight.

Inhalation: Material is extremely destructive to tissues of the mucous membranes and

upper respiratory tract. Inhalation may be fatal as a result of spasm,

inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and

vomiting.

Ingestion: Harmful if swallowed. If swallowed there is immediate severe irritation and

damage. Symptoms include headache, nausea and vomiting.

12. ECOLOGICAL EFFECTS

Ecotoxicity: Data not available Persistence: Data not available Appraisal: Data not available

13. DISPOSAL CONSIDERATIONS

Waste disposal: For small quantities: cautiously add to a large stirred excess of water. Adjust

pH to neutral, separate any insoluble solids or liquids and package them for hazardous waste disposal. Flush the aqueous solution down the drain with

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Plenty of water. The hydrolysis and neutralisation reactions may generate heat and fumes which can be controlled by the rate of addition. Observe all local and environmental regulations.

14. TRANSPORT INFORMATION

IMDG code

UN no: 1789 Packaging group: II Class: 8

ADR/RID

Subst. ID no: 1789 Class + Item no: 8, 5(b)

IATA/ICAO

UN no: 1789

15. REGULATORY INFORMATION

Classification: Corrosive

Risk phrases: R35: Causes severe burns

R37: Irritating to the respiratory system

Safety phrases: S1/2: Keep locked up and out of reach of children.

S7/9: Keep container tightly closed and in a well ventilated place.S26: In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

S45: In case of contact or if you feel unwell, seek medical advice

immediately (show label where possible).

16. ADDITIONAL INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Chemical Treatment Services Ltd shall not be held liable for any damage resulting from handling or from contact with the above product

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