

HYDROCHLORIC ACID 32%

R-10777.G

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : HYDROCHLORIC ACID 32%
Common name of active ingredients : Hydrochloric acid ,32% aqueous solution .
Chemical formula : HCl
Use : Industrial.
Company identification : Makhteshim Chemical Works Ltd.
PO Box 60
Beer Sheva 84100 Israel.
Fax : +972-8-6296848
Emergency phone nr : 972-3-6106666 Subscription no. 36789 (Makhteshim)

2. COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Hydrochloric acid	: 32 %	7647-01-0	231-595-7	017-002-01-X	C; R34 Xi; R37

3. HAZARDS IDENTIFICATION

Physical/Chemical Hazards : Corrosive
Human health hazards : Causes burns . Irritating to respiratory system .
Environmental hazard : Toxic to aquatic organisms .

4. FIRST AID MEASURES

Effects and symptoms

Inhalation : Inhalation of spray mist may be severely irritating to respiratory tract .
May result in chemical pneumonitis and lung oedema .
Ingestion : May cause burns to mouth , throat and stomach .
Skin contact : Corrosive to skin . May cause burns .
Eye contact : May be irritating and corrosive to eyes .
First aid
Inhalation : Remove victim to fresh air. If not breathing: apply artificial respiration . If breathing is difficult: give oxygen . Get medical attention .
Ingestion : Wash out mouth with plenty of water. Immediately get medical attention.
Skin contact : Immediately remove contaminated clothing . Wash off with hot water and soap .
Wash clothing separately before re-use. Get medical attention .
Eye contact : Wash out with water with the eyelid held wide open . Immediately get medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Not flammable .
Use most appropriate agent to extinguish surrounding fire. Do not use water jet.
Special exposure hazards : Combustible gas or vapour may be formed.
Protection against fire : Wear suitable protective clothing and self-contained breathing apparatus .

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Do not breathe vapour . Wear suitable protective clothing , rubber gloves , boots , self-contained breathing apparatus .
- Environmental precautions** : Do not allow to enter sewage system or soil .
- After spillage and/or leakage** : Remove source of heat, sparks, flame, impact, friction or electricity . Absorb in sand or other inert material . Neutralize with : lime , lime sand , sodium hydroxide solution or sodium carbonate .

7. HANDLING AND STORAGE

- Handling** : Wear acid-proof protective clothing and full face/eye protection. Do not breathe gas/fumes/vapour/spray. Never add water to this product (reacts violently with water). Avoid prolonged or repeated exposure to this product.
- Storage** : Keep container tightly closed. Keep in a cool, dry place .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Industrial hygiene** : Safety shower and eye bath . Ventilation required.
- Respiratory protection** : Approved respirator.
- Skin protection** : Wear suitable protective clothing .
- Hand protection** : Wear suitable gloves.
- Eye protection** : Safety goggles or face shield

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Colourless
- Odour** : Pungent.
- pH value** : <1
- Specific gravity** : 1.01-1.21
- Molecular weight** : 36.46
- Final boiling point [°C]** : 85°C
- Vapour pressure mm/Hg** : 212 (20°C)
- Relative vapour density (air=1)** : 1.3
- Solubility in water** : Soluble
- Flash point [°C]** : None.
- Flammability** : Not flammable

10. STABILITY AND REACTIVITY

- Physico-chemical stability** : Stable under normal conditions.
- Hazardous decomposition products** : Emits toxic fumes of HCl gas .
- Hazardous reactions** : Reacts violently with water .
- Materials to avoid** : Corrosive to steel .
Bases , amines , alkali metals , aluminium , copper copper .
- Conditions to avoid** : Heat



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11. TOXICOLOGICAL INFORMATION

- Acute toxicity** : Corrosive Substance .
Causes burns to skin and eyes .
Causes damage to mouth , oesophagus and gastrointestinal tract .
- Rabbit oral LD50 [mg/kg]** : 900
- Rabbit dermal LD50 [mg/kg]** : Irritating to respiratory system

12. ECOLOGICAL INFORMATION

- Ecological effects information** : Toxic to aquatic organisms .
Harmful effect due to PH shift. Forms corrosive mixtures with water even if diluted.

13. DISPOSAL CONSIDERATIONS

- Disposal** : Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

- **UN No.** : 1789
- **Proper shipping name** : HYDROCHLORIC ACID (32% Hydrochloric acid)
- **Packing group** : II
- **Class** : 8
- **H.I. nr :** : 80
- **IMDG-Marine pollution** : No

15. REGULATORY INFORMATION

- EU Classification** : EU Classification (67/548/EEC-88/379/EEC)
- Symbol(s)**



- R Phrase(s)** : C: Corrosive
: R34 - Causes burns.
: R37 - Irritating to respiratory system.
- S Phrase(s)** : S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
: S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
: S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

16. OTHER INFORMATION

- Recommended uses and restrictions** : Industrial use only
- Text of R-phrases in heading 2** : R34 - Causes burns.
: R37 - Irritating to respiratory system.
- Print date** : 12 / 12 / 2007

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CHEMICAL WORKS LTD.

MATERIAL SAFETY DATA SHEET

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16. OTHER INFORMATION (continued)

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