

MATERIAL SAFETY DATA SHEET

Rev. No. 001

Company Details

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|---------|---|------------------------|---|
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1. Product and Company Identification:

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|-------------------------|---|--------------|----|
| Trade / Commercial Name | Toilet & Drain Stuff | | |
| Chemical Name | A water based blend of hydrochloric acid, QAC and surfactants used as a toilet bowl cleaner | | |
| Formula | Complies with NRCS Reg. No. Act5GNR529/204915/040/0750 | | |
| Chemical Family | | | |
| Synonyms | | | |
| Un No | 1789 : class 8 : packing group 3 | Hazchem Code | 2r |
| ERG No. | 157 | EAC | 60 |

2. Composition

| | | CAS No. | % (optional) |
|----------------------|--|-----------|--------------|
| Hazardous Components | Hydrochloric acid | 7647-01-0 | < 16.2% |
| | Honey coloured water thin liquid with a sharp odour. | | |

3. Hazards Identification:

Corrosive.
If inhaled, could be harmful.
Fire could produce irritating or poisonous gasses.
Runoff from fire-control or dilution water could cause pollution.

4. First Aid Measures:

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| First Aid Skin | Wash affected area with plenty of soap and water for at least 20 minutes. SPEED IN REMOVING LIQUID FROM SKIN IS OF PRIME IMPORTANCE. Cover affected area with magnesia or baking soda. TO PREVENT, SERIOUS BURNS AND INJURY. Remove contaminated clothing immediately (flush clothes thoroughly with water after removing). |
| First Aid Eyes | Flush eyes with water for 15 minutes. Hold eyelids open while washing. Repeat irrigation if necessary. If pain persists, place 2-3 drops 1/2 % Pontocaine solution in affected eye(s). |
| First Aid Ingested | Call doctor immediately. Drink a teaspoon or more of magnesia, or small pieces of soap softened with water. |
| First Aid Inhalation | If not breathing give artificial respiration. DO NOT USE MOUTH TO MOUTH METHOD IF VICTIM INGESTED OR INHALED THE SUBSTANCE. If breathing of victim is difficult administer oxygen for a maximum period of one hour. |

5. Fire Fighting Measures:

EXTINGUISHING MEDIA: N/A.

Choose most appropriate for surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS :

May produce irritating vapours.

CONDITIONS OF FLAMMABILITY : N/A.

6. Accidental Release Measures:

Full protective clothing including breathing apparatus if spill is large and in a confined area.

Prevent entry into waterways, sewers, basements or confined areas.

PRECAUTIONS :

Restrict access to area.

Provide adequate protective equipment and ventilation.

Remove sources of heat and flame.

SPILL OR LEAK :

Shut off ignition sources; no smoking or flames in hazard area.

Stop leak if you can do it without risk.

SMALL SPILLS :

Take-up with sand or other noncombustible absorbent material and place into containers for later disposal.

LARGE SPILLS :

Dike far ahead of liquid spill for later disposal.

7. Handling and Storage:

Store in cool place.

Store away from heat or flame.

Store in plastic drums.

8. Exposure Controls/Personal Protection:

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| <u>Occupation Exposure Limits</u> | No Exposure Limits Established. |
| <u>Controls</u> | The control measures appropriate for a particular worksite depend on how this material is used. A safety eyewash bottle / fountain should be available. |
| <u>Personal Protection</u> | RESPIRATORY PROTECTION: Work in ventilated area; wear respirator if necessary. PROTECTIVE GLOVES: Gloves and apron. EYE PROTECTION: Safety goggles. |

9. Physical and Chemical Properties:

Honey coloured water thin liquid with a sharp odour.

A blend of H₂O, hydrochloric acid, surfactant, QAC 50 (Active ingredient QAC 50 = 0.1%)

Boiling Point: Not established.

Freezing Point: Not established.

pH: 0.1 - 2.0

Specific Gravity : 1.060 – 1.074

Vapour Pressure: N/A.

Flammable limits: N/A.

Flash Point: None.

Completely soluble in water: Yes.

Packaging: 3 litre Polycans.

10. Stability and Reactivity:

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|------------------------------|---|
| <u>Conditions To Avoid</u> | Excessive temperatures. |
| <u>Incompatible Material</u> | Incompatible with aluminium & painted surfaces. |
| <u>Other</u> | Decomposition products: Hydrogen, Chlorine. (Does not readily decompose). |

11. Toxicological Information:

INTRAPERITONEAL MOUSE LD50 FOR HYDROCHLORIC ACID 40 MG/KG

ORAL RABBIT LD50 FOR HYDROCHLORIC ACID 900 MG/KG

INHALATION-1HR RAT LC50 FOR HYDROCHLORIC ACID 3124 PPM

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

CARCINOGENICITY: NONE IDENTIFIED.

REPRODUCTIVE EFFECTS: NONE IDENTIFIED.

EFFECTS OF OVER EXPOSURE:

INHALATION: PULMONARY EDEMA, CIRCULATORY FAILURE, RESPIRATORY. SYSTEM DAMAGE, COLLAPSE, COUGHING, DIFFICULT BREATHING.

SKIN CONTACT: SEVERE BURNS.

EYE CONTACT: SEVERE BURNS.

SKIN ABSORPTION: NONE IDENTIFIED.

INGESTION: IS HARMFUL AND MAY BE FATAL. SEVERE BURNS TO MOUTH, THROAT, AND STOMACH, NAUSEA, VOMITING.

CHRONIC EFFECTS: MAY CAUSE TEETH DAMAGE.

TARGET ORGANS: RESPIRATORY SYSTEM, EYES, SKIN.

PRIMARY ROUTES OF ENTRY: INGESTION, INHALATION, SKIN CONTACT, EYE CONTACT.

12. Ecological Information:

No ecological problems are expected when the product is handled and used with due care.

13. Disposal Considerations:

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| <u>Disposal Method Product</u> | Disposal in accordance with local legal provisions. |
| <u>Disposal Method Packaging</u> | Disposal in accordance with local legal provisions. |

14. Transport Information:

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|-------------------------|----------------------------------|-----------------------------|--------|
| <u>UN No</u> | 1789 | <u>Hazchem Code</u> | 2r |
| <u>EAC</u> | 60 | <u>ERG No.</u> | 157 |
| <u>IMDG Code</u> | 8174 | <u>IMDG-Packaging Group</u> | II/III |
| <u>Marine Pollutant</u> | yes | | |
| <u>Class</u> | Class: 8 Corrosive Group: II/III | | |
| <u>Subsidiary Risks</u> | None | | |
| <u>Tremcard Number</u> | 50 | | |

15. Regulatory Information:

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| EEC Hazard Classification | 8 |
| Risk Phases | Causes burns. Irritating to respiratory system. |
| Safety Phases | Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| National Legislation | |

16: Other Information:

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| Reason for Alteration: General update: June 2024 (as per SABS 1344 & 1828 specification requirements.) Next scheduled update: June 2026 (as per SABS 1344 & 1828 specification requirements.) |
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