



HUGH CRANE

— Cleaning Equipment Limited —

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Descaler (Descaling Acid) Page 1 of 4

SDS Revision Date: 22/05/2019

Print Date: 28/01/2021

PRODUCT INFORMATION SHEET

DESCALING ACID

DESCRIPTION

A Hydrochloric acid solution, minimum 30% concentration. Incorporates an inhibitor to minimise attack on ferrous metals.

APPLICATION

For the removal of hard water scale from the heat exchangers of steam cleaners and hot pressure washers.

METHOD OF USE

To descale heat exchangers, steam cleaner coils, etc., use in accordance with the instructions set out in the machine manual. Generally, a solution of one part Descaler to 8 parts water is poured into the break tank, then pumped through the system.

In some cases it may be possible for the Descaler to be drawn through the detergent system instead of applying via the break tank.

After a contact time of 10 – 15 minutes, flush the system thoroughly with clean water.

Repeat if necessary.

PACK SIZES

5 Litre containers

25 Litre drums

Please note, uncleaned empty containers may be regarded as a hazardous waste.

TYPICAL CHARACTERISTICS

Appearance: A clear to brown coloured liquid with a pungent odour

pH as supplied: 1.0

Relative density: 1.163 (approx)

Activity: Approximately 32%

HEALTH AND SAFETY INFORMATION

- Liquid is corrosive and can cause severe burns.
- Vapours are irritating to the respiratory system.
- In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice.
- In case of contact of spillage, drench with water.
- This material must be handled carefully using all the precautions normally accorded to strong acids.
- Always wear protective goggles when using this material and store in well-ventilated place.
- Never mix with other chemicals, especially hypochlorite (bleach), as toxic chlorine gas may be released.

For further information, please refer to our Safety Data Sheet.



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SAFETY DATA SHEET

DESCALING ACID

1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name: Descaler – (Descaling Acid)
Identified Uses: Removal of hard water scale. For professional use only.
Supplied by: Hugh Crane (Cleaning Equipment) Limited
South Walsham Road, Acle
Norwich, NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
In emergency contact the National Poisons Information Service
UK telephone: 0121 507 5122 or 0344 892 0111 **Republic of Ireland:** 01 809 2166 or 01 809 2566



2. HAZARDS IDENTIFICATION

Signal Word: Danger



Hazard Statements:
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
Liquid and vapour are corrosive to skin, eyes and mucous membranes.
Vapour can be irritating to the respiratory system.
See section 15 for precautionary statements.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Component	EINECS No	CAS No	Content	Classification
Hydrochloric acid	231-5957-7	7647-01-0	25-36%	  H290, H314, H335

4. FIRST AID MEASURES

Inhalation: Move the exposed person to fresh air at once. Keep the affected person warm and at rest.
Ingestion: Ingestion, even in small amounts, can cause serious damage. Causes burns. Nausea and vomiting. Obtain medical attention immediately. Call a POISON CENTRE or doctor / physician. If confined to the mouth, give water as a mouth wash, ensuring that none is swallowed. Obtain medical attention. Treatment may be needed for shock or pain. Give milk or water to drink. DO NOT INDUCE VOMITING.
Eye contact: Promptly wash the eye thoroughly with plenty of clean water or eye wash solution. Obtain medical attention. Remove any contact lenses and continue to wash, while lifting the eyelids.
Skin contact: Remove contaminated clothing. Wash with plenty of water. If irritation persists or blistering occurs, seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing media: The product is non-combustible. Use alcohol-resistant foam, dry chemical, carbon dioxide or water spray.
Exposure hazards: Contact with metals may release flammable hydrogen gas. Thermal decomposition may release toxic/corrosive fumes of chlorine gas and hydrogen chloride.
Personal protection: Fire-fighters should use self-contained breathing apparatus and wear full body protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Contain spillages with sand or other absorbent media. Neutralise with sodium carbonate (soda ash). Small spillages and residues may be flushed away with plenty of water. Do not allow product to enter drains or water courses. In all such cases contact the appropriate authorities immediately.

7. HANDLING AND STORAGE

Handling: Ensure adequate ventilation. Avoid inhalation of vapour. Avoid skin and eye contact. No smoking. Suitable protective clothing should be worn.



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Storage: Keep away from alkalis and oxidising agents, e.g. sodium hypochlorite (bleach). Store in a well-ventilated area above 0°C and below 40°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

O E S	8 Hour TWA	S.T.E.L.
Hydrochloric Acid	2 mg/m ³ (1ppm)	8 mg/m ³ (5 ppm)

RECOMMENDED SAFETY EQUIPMENT

Eye protection: Safety goggles or face shield.
Hand protection: Impervious neoprene or PVC gloves.
Skin protection: Appropriate clothing to prevent contact.
Respiratory protection: Approved RPE required if vapour levels are likely to exceed the exposure limit

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow or brown coloured liquid.
Odour: Pungent, characteristic.
pH value: 1.0
Flash point: Not applicable. (non flammable).
Relative density: Approx. 1.160 - 1.180 @ 20° C (water = 1.000).
Water solubility: Miscible.
Other Information: Vapours are visible in moist air.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Reactivity: Reacts with oxidising agents to liberate toxic chlorine gas. Contact with sulphuric acid liberates toxic fumes of hydrogen chloride gas. Contact with nitric acid liberates toxic fumes of nitrosyl chloride. Can liberate harmful gases from certain chemical salts, e.g. cyanides, nitrates, sulphites, and carbides. Corrosive to most metals. Contact with metals can liberate highly flammable hydrogen gas. Reactions with strong alkalis can generate heat.

11. TOXICOLOGICAL INFORMATION

Ingestion, even in small amounts, can cause serious damage to the throat, gastrointestinal tract and stomach. Liquid and vapour can cause burns, severe irritation and corrosion to skin, eyes, respiratory system and digestive tracts. Liquid and high vapour concentrations may cause conjunctiva perforation. Aspiration during swallowing or vomiting may cause lung damage. Prolonged or frequent exposure to concentrations above the hygiene standard may cause erosion of the teeth and pulmonary oedema.

12. ECOLOGICAL INFORMATION

Product does not contain any PBT or vPvB substances.
Mobility: Readily absorbed into soil
Persistence and degradability: Biodegradable
Bio accumulative potential: No evidence of bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Surplus material should be neutralised with careful addition of sodium carbonate (soda ash) and disposed of through a licensed waste operator.

14. TRANSPORT INFORMATION

ADR/CDG Class: 8, CORROSIVE
Transport Label:



U.N. No: 1789
Shipping name: HYDROCHLORIC ACID SOLUTION
Packing Group: II
Shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains sodium hydroxide)
Packing group: III



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15. REGULATORY INFORMATION

The Chemicals (Hazards Information and Packaging for Supply) Regulations 2009.
Control of Substances Hazardous to Health Regulations.

Labelling according to EU requirements

Hazard symbols:



Signal word:

Danger

Hazard statements:

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

Precautionary statements:

P271: Use only outdoors or in a well-ventilated area

P260: Do not breathe vapour/spray

P262: Do not get in eyes, on skin or on clothing

P280: Wear protective gloves and eye/face protection

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so – continue rinsing

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P302+352: IF ON SKIN: Wash with soap and water

16. OTHER INFORMATION

The contents of hazardous ingredients listed in section 3 are expressed as a percentage range of active matter calculated on a weight/volume basis unless otherwise specified.

The ingredients used in this product, where applicable, are registered under the REACH system with the European Chemicals Agency (ECHA).

SDS Revision Date:

22ND May 2019.

Reviewed:

January 2021.

Legal disclaimer:

The foregoing information is based on the state of our knowledge and experience of the product and the various ingredients used in the preparation. It is given in good faith but no warranty is implied. Buyers must satisfy themselves as to the suitability of the product and take responsibility for making their own assessments.

End of Safety Data Sheet.