



## MATERIAL SAFETY DATA SHEET

**PRODUCT:** Grout Off  
**MANUFACTURER:** Tile & Floor Care Chemicals CC  
**MANUFACTURERS ADDRESS:** Cnr. Sam Green & Evergreen Roads  
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**JUN 2017**

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**MSDS Preparation Date:**

### 1. Product Name: Grout Off

**Intended Use:** Acid concrete cleaner  
**Chemical Name:** Hydrochloric Acid  
**Chemical Family:** Acid  
**Synonyms:** Muriatic Acid

### 2. Composition / Information on hazardous ingredients

Ingredients	CAS Number	R Phrase	EEC
Hydrogen Chloride	-	-	-
Proprietary blend of additives	-	-	-

### 3. Hazard Identification

**Main Hazards:** Corrosive & Very dangerous  
Contact could irritate & burn the eyes and skin

### 4. First Aid Measures

**Eye Contact:** Hold eyelids apart and immediately flush with plenty of water for at least 20 minutes. Seek medical advice urgently.  
**Skin Contact:** Wash affected skin areas thoroughly with soap and water for at least 20 minutes. SPEED IN REMOVING LIQUID FROM SKIN IS OF PRIME IMPORTANCE TO PREVENT SERIOUS BURNS AND INJURY.  
**Inhalation:** Move patient to fresh air. If not breathing give artificial respiration. If breathing of victim is difficult, administer oxygen.  
**Ingestion:** **DO NOT** induce vomiting. Seek medical advice. Never give anything by mouth to an unconscious person.

### 5. Fire Fighting Measures:

**Extinguishing Media**  
**Small Fires:** Dry Chemical, CO<sub>2</sub>, Halon, Water Spray or Standard Foam  
**Large Fires:** Water spray, Fog or Alcohol Foam is recommended  
**Protective Equipment:** Wear suitable respiratory equipment when necessary.

### 6. Accidental Release Measures

**Personal Precautions:** FULL protective clothing, including breathing apparatus.  
**Environmental Precautions:** Restrict access to area. Remove sources of heat and flame. Notify the relevant environmental authorities.  
**Clean Up Methods:** Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

### 7. Handling and Storage

**Handling:** **NB! USE OF GLOVES, GOGGLES & APRONS ARE COMPULSARY**  
**Storage:** Store in cool, dry areas in HDPE containers. Avoid contact with alkaline material and soft metals

### 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits:** No exposure limits established  
**Engineering Measures:** Ensure adequate ventilation of the working area.  
**Personal Protection:** FULL protective clothing, including breathing apparatus.

### 9. Physical and Chemical Properties

**Description:** Liquid  
**Colour:** Colourless to green / yellow  
**Odour:** Pungent & irritating  
**Boiling Point:** max 110°C for 20,2% solution  
**Relative Density:** 1,024 - 1,026  
**Vapour Pressure:** 28,2 kPa  
**Water Solubility:** Completely soluble in water

### 10. Stability and Reactivity

**Stability:** Stable under normal conditions:  
**Materials to avoid:** Reacts with most metals and evolves highly flammable hydrogen

### 11. Toxicological Information:

**Short Term Health Effects:** May cause death in the range of 1000-2000 ppm. May cause irritation and burns of the skin  
**Long Term Health Effects:** Long term exposure to low levels (greater than 5 ppm) of Hydrogen Chloride can cause some dental erosion.

## **12. Ecological Information:**

Ecotoxicity: None expected

## **13. Disposal Considerations:**

**Disposal Methods:** Dispose of in compliance with local and national regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

**Disposal of Packaging:** Containers can be recycled if in compliance with the local and national regulations.

## **14. Transport Information:**

**UN Number:** UN 1789  
**IMDG Shipping Name:** Hydrochloric Acid  
**IMDG Class:** Class 8  
**IMDG Packaging Group:** II  
**IMDG Marine Pollutant:** Yes  
**IMDG EMS No:** F-A S-B

## **15. Regulatory Information:**

**EEC Hazard Classification:** Corrosive - 8

**Risk Phrases:** **R34** - Causes burns.

**R37** - Irritating to respiratory system.

**Safety Phrases:** **S1/2** - Keep locked up and out of reach of children.

**S13** - Keep away from food, drink and animal feeding stuff.

**S26** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S28** - After contact with skin, wash immediately with plenty of soap and water.

**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 and show the label where possible.

**S46** - If swallowed, seek medical advice immediately and show this container or label.

## **16. Other Information:**

**Further Information:** The information supplied in this Safety Data Sheet is designed only as a guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.