

# MATERIAL SAFETY DATA SHEET – SCALEBREAKER HD

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### **1. Product name / description:**

**SCALEBREAKER HD descaling liquid**

### **2. Composition / information on ingredients:**

Blend of hydrochloric acid, water, wetting agents  
corrosion inhibitors and methyl orange colour change indicator.  
Hydrochloric acid (> 32%) CAS No: 7647-01-0

### **3. Hazards identification:**

Liquid and vapour are harmful to skin, eyes, and mucous membranes. Solutions can cause acid burns.

### **4. FIRST AID MEASURES:**

Eyes: Flush with water immediately for at least 10 minutes, holding the eyelids apart if necessary.  
Seek medical attention.

Skin: Flush with water for at least 10 minutes. If large areas of skin are damaged or irritation persists,  
seek medical attention. Wash clothing before re-use.

Ingestion: **DO NOT INDUCE VOMITING.** Wash out mouth with water. Give patient water to  
drink. Seek medical attention. Never give an unconscious person anything by mouth.

Inhalation: Move to adequately ventilated area. If recovery is not rapid, seek medical attention.

**5. Fire fighting measures:** Material is not flammable. May generate toxic chlorine fumes in a fire.  
Use extinguisher suitable to cause of fire. Keep fire exposed containers cool with water spray.

**6. Accidental release measures:** Small spillages - dilute greatly with water and slowly neutralise with  
sodium carbonate, bicarbonate or hydroxide, and rinse with copious amounts of water. Prevent large  
spillages from entering drains, sewers, or water courses, contain as much as possible, and transfer to a  
salvage tank. Ventilate enclosed areas to dispel residual vapours.

### **7. Handling & storage:**

Handling: Avoid skin and eye contact.

Storage: Store at ambient temperatures in a well ventilated area. Keep container tightly closed when  
not in use. Keep away from materials which react with acids. Keep NEUTRALISING CRYSTALS  
available to help deal with small spillages. Not suitable for storage in metal containers.

### **8. Exposure controls / personal protection:**

Exposure limit (STEL): 5 ppm (7mg/m<sup>3</sup>)

Respiratory protection: Avoid breathing vapour.

Hand protection: Wear rubber or PVC gloves.

Eye protection: Wear safety goggles or face shield.

### **9. Physical & chemical properties:**

- Appearance: Pinkish-red liquid.
- Density: ca. 1.15 kg / litre.
- Odour: Pungent characteristic odour.
- pH of 10% solution: ca. 0.6
- Solubility in water: miscible with water.
- Boiling point: 108°C.

**10. Stability & reactivity:**

Conditions to avoid: Extremes of temperature.

Materials to avoid: Do not mix with oxidising agents.

Hazardous decomposition products: Attacks some metals, liberating flammable hydrogen gas.

**11. Toxicological information:**

Effects: Liquid and vapour cause severe irritation and corrosion to skin, eyes, and respiratory tracts. Due to acid nature, will cause burns to exposed tissue. Aspiration during swallowing or vomiting will damage the lungs.

**12. Ecological information:**

Practically non toxic to living resources. ( 96 hr LC50 ) Toxic to aquatic forms (280 ppm in freshwater).

**13. Disposal considerations:** Dispose of by flushing away with water and neutralising with alkali such as sodium carbonate, NEUTRALISING CRYSTALS, to neutral pH. For large quantities, seek advice from specialist waste disposal company.

**14. Transport information:**

- UN No. 1789
- IMDG Class 8, CORROSIVE                      Packing group II
- ADR Class 8, CORROSIVE

**Shipping name: SCALEBREAKER HD liquid.**

**15. Regulatory information:**

Symbol: CORROSIVE

- RISK PHRASES:  
R34 Causes burns.  
R37 Irritating to respiratory system.
- SAFETY PHRASES:  
Keep out of reach of children.  
Avoid skin and eye contact.  
Do not take by mouth.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
After contact with skin wash immediately with plenty of water.

## **16. Other information:**

Usual application of product: Descaling of plant and equipment.

Other precautions: Provide suitable ventilation when descaling. Some hydrogen may be evolved, and this is a flammable gas. Avoid smoking nearby, or any other means of ignition.

### CLP Regulations:

#### **Prevention:**

- P260: Do not breathe vapours.
- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection

#### **Response:**

- P301 + P330 + P 331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P363: Wash contaminated clothing before reuse.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P310: Immediately call a POISON CENTER or doctor/physician.
- P321: Specific treatment (see ... on this label).
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Storage:**

- P405: Store locked up.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.

#### **Disposal:**

- P501: Dispose of contents by flushing away with water and neutralising with alkali to neutral pH. For large quantities, seek advice from specialist waste disposal company.

**Legal disclaimer:** The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.