

SAFETY DATA SHEET

BREAKER

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Issued: 01/08/2008

Revision No: 3

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

Product name: BREAKER

Product code: 506

Use of substance / preparation: 506: A viscous odourless acidic descaler with a powerful action for deep cleaning pool areas. Safe on stainless steel.

Company name: Clover Chemicals Ltd
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2. HAZARDS IDENTIFICATION

Main hazards: Irritating to eyes and skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ORTHOPHOSPHORIC ACID 10-30%
EINECS: 231-633-2 CAS: 7664-38-2
[C] R34

- (C11 - C14)PARETH(5 - 11) 1-10%
CAS: 24938-91-8
[Xn] R22; [Xi] R41

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

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Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Stainless steel. Teflon. Glass. Polyethylene.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ORTHOPHOSPHORIC ACID...100%
WEL (8 hr TWA): 1 mg/m³ WEL (15 min STEL): 2 mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Barely perceptible odour

Evaporation rate: Moderate

Solubility in water: Soluble

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Viscosity: Viscous
Boiling point/range°C: >100
Melting point/range°C: <0
Relative density: 1.15 - 1.25
pH: 1% = 2 - 2.5
VOC g/l: 0

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Heat.
Materials to avoid: Strong oxidising agents.
Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ORTHOPHOSPHORIC ACID...100%
ORL RAT LD50 1530 mg/kg
• (C11 - C14)PARETH(5 - 11)
ORL RAT LD50 1.5 g/kg
Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Readily absorbed into soil.
Persistence and degradability: Biodegradable. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.
Bioaccumulative potential: No bioaccumulation potential.
Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Dispose of as normal industrial waste.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3264	ADR Class: 8
Packing group: III	Classification code: C1
Shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ORTHOPHOSPHORIC ACID...20%)	
Labelling: 8	Hazard ID no: 80



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IMDG / IMO

UN no: 3264 **Class:** 8
Packing group: III **EmS:** F-A,S-B
Marine pollutant: .
Labelling: 8

IATA / ICAO

UN no: 3264 **Class:** 8
Packing group: III
Packing instructions: 818(P&CA); 820(CAO)
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Irritant.



Risk phrases: R36/38: Irritating to eyes and skin.

Safety phrases: S2: Keep out of the reach of children.

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

Haz. ingredients (label): ORTHOPHOSPHORIC ACID...100%

Seveso II guideline: No

Water hazard class: 1 Classification by VwVwS

Air emission directive: Amount m%: 0

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

1 LTR ; LIMITED QUANTITY FOR ADR

5 LTR ; LIMITED QUANTITY FOR ADR

Risk phrases used in s.3: R34: Causes burns.

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

