

**Mouldpro ApS**

Baltorpbakken 10 – 2750 Ballerup

Tel. +45 70203131 Fax + 45 70203151

Internet <http://www.mouldpro.com>**Safety Data Sheet No. SS0101 Rev. 09 dated 04-01-10****PRODUCT: REMOVER LIQUID**

Presentation and layout in conformity with the requirements of the REACH regulation published in the OJEU (Official Journal of European Union) on 30.12.06

1 IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

1.1 Identification of the substance or preparation

Product name: REMOVER LIQUID

Registration number: Not available

1.2 Use of the substance

Descaling liquid with powerful reaction for heat exchangers in copper and steel.

1.3 Identification of the company

Mouldpro ApS
Baltorpbakken 10
DK-2750 Ballerup

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SDB-responsible:

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E-mail

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2 HAZARDS IDENTIFICATION

Classification: Xi Irritant R 36/37/38;

Hazards for humans and environment: The product is hazardous because of its acidity.

Main harmful effects for humans: Irritating to eyes and skin.

Main harmful effects for environment: Acid product.

3 COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Identity	EINECS	Content	Classification and risk phrases
Hydrochloric acid	231-595-7	< 25%	Xi R36/37/38
Phosphoric acid	231-633-2	< 5%	Xi R36/38

4 FIRST AID MEASURES

4.1 General directions:

In case of unconsciousness, do not give anything to drink, do not induce vomiting.

Seek medical attention.

4.2 Inhalation:

Move the person to fresh air.

4.3 Skin contact:

Wash with plenty of water. Remove all contaminated clothes.

4.4 Eye contact:

Wash with plenty of water for some minutes by keeping eyelids open.

If possible, remove contact lenses smoothly.

In case of irritation, seek medical attention.


4.5 Ingestion:

Drink plenty of water, rinse mouth. Do not induce vomiting. Obtain medical attention.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Powder extinguishers, CO₂, water and foam.

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5.2 Particular hazards: Incombustible. In case of fire, fumes of hydrochloric acid may be formed.
 5.3 Protection of fire-fighters: Breathing apparatus and acid-proof suits.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear acid-proof clothing, shoes and gloves, wear splash-proof glasses and masks protecting respiratory system.
 6.2 Environmental precautions: Prevent from dispersing into sewers or ground.
 6.3 Clean-up procedures: If possible, suck up the liquid into a suitable container and absorb the rest with porous material (tripoli, acid binder, universal binder, etc.).
 Clean the residues with plenty of water. Provide enough ventilation.

7 HANDLING AND STORAGE

7.1 Handling: Avoid direct contact with the product. Do not eat, drink, smoke during work.
 7.2 Storage: Store the product in closed containers, in a ventilated room.
 Store away from alkalis, do not keep in contact with metals.
 Pour and handle the product in systems closed or under suction only.

8 EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Exposure limit values: TLV-STEL/C Hydrochloric acid 7,5 mg/m³ (ceiling)
 TLV-TWA Phosphoric acid 1 mg/m³
 TLV-STEL/C Phosphoric acid 3 mg/m³
 8.2 Exposure controls: Not applicable
 8.2.1 Occupational exposure controls
 Respiratory protection: Mask type E (yellow) for acid gases
 Hand protection: Acid-proof rubber gloves
 Eye protection: Protective glasses
 Skin protection: Acid-proof protective clothing
 8.2.2 Environmental exposure protection
 V.O.C. < 1%

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.
 Colour: Ruby red.
 Odour: Acrid – sharp.
 Specific weight: 1,150 Kg/dm³.
 Solubility: Complete.
 pH: < 1.
 Fusion point/interval: -
 Decomposition interval/point: -
 Flammability point: Not applicable.

10 STABILITY AND REACTIVITY

Stability: The product does not decompose if used according to the norms.

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Conditions to avoid: Contact with: alkalis, amines and organic substances in general, metals and carbide.

Hazardous reactions: With alkalis, amines and organic substances in general, metals and carbide.

Decomposition products: Fumes of hydrochloric acid.

11 TOXICOLOGICAL INFORMATION

11.1 Acute oral toxicity (DL50) 700 mg/kg (rat)
Acute dermal toxicity (DL50) > 5010 mg/kg (rat)
Acute inhaled toxicity (CL50) 4,2 mg/l (rat – 1 hour)

11.2 Harmful effects for health

The substance is corrosive to eyes, skin and respiratory system. Inhalation of high concentration of the gas may provoke pneumonia and pulmonary edema, thus causing the syndrome of reactive disorder of the respiratory system. Effects may be delayed. Medical attention is recommended.

Other hazardous features are not to be excluded. Keep usual handling precautions of chemicals.

12 ECOLOGICAL INFORMATION

12.1 Mobility: Not known

12.2 Ecotoxicity:
Test EC 50 (mg/l): Not known
Receptor medium:
Risk for the land environment = Not known
Observations: Ecotoxicity is due to the pH deviation. Low chronic ecotoxicity.

12.3 Degradability:
Test: DBO5 = Not known
Classification on biotic degradation:
DBO5/DQO Biodegradability = Not known
Abiotic degradation depending on pH: Not known
Observations: Biodegradable product.

12.4 Accumulation:
Test: Not available
Bioaccumulation:
Hazard = Not known
Observations: Non-bioaccumulable product.

12.5 Other possible effects to the environment: None

13 DISPOSAL CONSIDERATIONS

Product:
Advices: Do not dispose of the product mixed with household waste. Do not pour in the sewage system. Recycle if possible, otherwise turn to authorised companies for industrial waste disposal.

Packaging not cleaned:
Advices: Wash with water, to be purified and disposed of.
Disposal according to administrative regulations.

Recommended detergent: Water with addition of detergents, if necessary.

14 TRANSPORT INFORMATION**Road ADR**

UN No.

3264

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Technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S.
Class: 8
Classification Code: C1
Packing group: II
Labels: 8
Special provisions: 274
Limited and excepted quantities: LQ22 - E2
Packing instructions: P001 - IBC02
Special packing provisions: -
Mixed packing provisions: MP15 May, in quantities not exceeding 3 litres per inner packaging, be packed together in a combination packaging with goods of the same class covered by other classification codes or with goods of other classes, when mixed packing is also permitted for these or with goods which are not subject to the requirements of ADR, provided they do not react dangerously with one another.

Transport category (Tunnel restriction code): 2(E)
Special provisions for carriage: -
Hazard identification no. 80
Hazardous for environment: -

Rail RID


UN No. **3264**
Technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S.
Class: 8
Classification Code: C1
Packing group: II
Labels: 8
Special provisions: 274
Limited and excepted quantities: LQ22 - E2
Packing instructions: P001 - IBC02
Special packing provisions: -
Mixed packing provisions: MP15
Transport category (Tunnel restriction code): 2(E)
Special provisions for carriage: -
Colis Express (Express Goods): CE6 An express parcel package shall not contain more than 4 litres of the substance.
Hazard identification no. 80
Hazardous for environment: -

Air ICAO-IATA

Technical name: Corrosive Liquid, Acidic, Inorganic N.O.S.
Class: 8
Sub Risk: -
Label: Corrosive
Packing group: II
ERG Code: 8L
UN/ID Number: 3264

Sea IMDG CODE

Technical name: Corrosive Liquid, Acidic, Inorganic N.O.S.
Class or division: 8
Packing group: II

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EmS: F-A, S-B
 Stowage and Segregation: Category B. Away from cabins
 UN/ID Number: 3264

15 REGULATORY INFORMATION

Symbol: Xi Irritant;
 Risk phrases: R 36/37/38 Irritating to eyes, respiratory system and skin;
 Safety phrases: S 2 Keep out of the reach of children;
 S 26 In case of contact with eyes, wash immediately with plenty of water and seek medical advice;
 S 28 In case of contact with skin, wash immediately with plenty of water and sodium bicarbonate.

16 OTHER INFORMATION

The information given in this Safety Data Sheet is correct according to our best knowledge of the product at the time of release. The information is supplied for the sole purpose of using, storing, transporting and disposing of the product in the most correct and safe way. The information given is not to be considered as a guarantee or a specification of the product qualities. It relates only to the product specified and is not valid for it when used in combination with other materials or in other processes not specifically indicated in the text of the Safety Data Sheet of the product.

The classification and risk phrases of the components mentioned in section 3, where applicable, are referred to the content of the component in the product.