

Trade name: BöttcherPro Hydroclean
 Product no.: 10810-2

Version: 2.4.0 / GB

Status: 20.07.2007

1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

BöttcherPro Hydroclean

Use of the substance/preparation

cleaner for damping units

Company/undertaking identification

Address

Felix Böttcher GmbH & Co. KG
 Stolberger Str. 351-353
 D-50933 Köln

Telephone no. +49 (0) 221 4907-1

Fax no. +49 (0) 221 4907-444

Emergency telephone

For medical advice (in German and English):
 +49 (0)551 192 40 (Giftinformationszentrum Nord)

Advice on Safety Data Sheet

sdb_info@umco.de

2.) Hazards identification

Classification

Xi; R36/38 Irritating to eyes and skin.
 R43 May cause sensitisation by skin contact.

Hazard symbols

Xi Irritant

R phrases

36/38 Irritating to eyes and skin.
 43 May cause sensitisation by skin contact.

3.) Composition / information on ingredients

Chemical characterization

Mixture (preparation)

Hazardous ingredients

SODIUM HYDROXIDE

| | | | | | |
|----------------|-----------|-----------|--------------|---------|-----------|
| EC no. | 215-185-5 | Index no. | 011-002-00-6 | CAS no. | 1310-73-2 |
| Concentration | > 0 | < | 1 | %-b.w. | |
| Classification | C; R35 | | | | |
| Hazard symbols | C | R phrases | 35 | | |

2-(2-BUTOXYETHOXY)ETHANOL

| | | | | | |
|----------------|-----------|-----------|--------------|---------|----------|
| EC no. | 203-961-6 | Index no. | 603-096-00-8 | CAS no. | 112-34-5 |
| Concentration | > 30 | < | 50 | %-b.w. | |
| Classification | Xi; R36 | | | | |
| Hazard symbols | Xi | R phrases | 36 | | |

alpha, alpha', alpha"-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H) triethanol

Trade name: BöttcherPro Hydroclean

Status: 20.07.2007

Product no.: 10810-2

Version: 2.4.0 / GB

| | | | | | |
|----------------|-----------|------------|----------------|---------|------------|
| EC no. | 246-764-0 | Index no. | - | CAS no. | 25254-50-6 |
| Concentration | > 1 | < | 5 | %-b.w. | |
| Classification | Xn; R22 | Xi; R36/38 | R52 | R43 | |
| Hazard symbols | Xn | R phrases | 22-36/38-43-52 | | |

4.) First aid measures

General information

In case of persisting adverse effects consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

5.) Fire-fighting measures

Suitable extinguishing media

Foam; extinguishing powder; Carbon dioxide; Water spray jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide and smoke.

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water in case of fire.

6.) Accidental release measures

Personal precautions

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

7.) Handling and storage

Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

Trade name: BöttcherPro Hydroclean
 Product no.: 10810-2

Version: 2.4.0 / GB

Status: 20.07.2007

Storage

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly

Do not store together with:
 Oxidizing agents
 Acids

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

8.) Exposure controls / personal protection

Exposure limit values

SODIUM HYDROXIDE

CAS no. 1310-73-2
 EC no. 215-185-5

Occupational Exposure Standards (OESs) / EH40

Sodium hydroxide
 STEL 2 mg/m³

2-(2-BUTOXYETHOXY)ETHANOL

CAS no. 112-34-5
 EC no. 203-961-6

2006/15/EG

2-(2-Butoxyethoxy)Ethanol
 TWA 67,5 mg/m³ 10 ml/m³
 STEL 101,2 mg/m³ 15 ml/m³

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Short term: filter apparatus, Filter A/P

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Clothing as usual in the chemical industry.

General protective and hygiene measures

Do not eat or drink during work - no smoking. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Have eye wash fountain available. Avoid contact with eyes and skin. Do not inhale vapours.

Trade name: BöttcherPro Hydroclean

Status: 20.07.2007

Product no.: 10810-2

Version: 2.4.0 / GB

9.) Physical and chemical properties

General information

| | |
|--------|----------------|
| Form | liquid |
| Colour | opaque; yellow |
| Odour | characteristic |

Important health, safety and environmental information

Changes in physical state

| | | | |
|-------|---------------|-----|----|
| Type | Boiling point | | |
| Value | appr. | 100 | °C |

Flash point

| | | |
|-------|-----|----|
| Value | 105 | °C |
|-------|-----|----|

Ignition temperature

| | | |
|-------|-----|----|
| Value | 225 | °C |
|-------|-----|----|

| | |
|---------------------|--------------|
| Reference substance | Glycol ether |
|---------------------|--------------|

Explosion limits

| | | |
|-----------------------|------|-------|
| Upper explosion limit | 5,90 | % vol |
|-----------------------|------|-------|

| | |
|---------------------|--------------|
| Reference substance | Glycol ether |
|---------------------|--------------|

| | | |
|-----------------------|------|-------|
| Lower explosion limit | 0,90 | % vol |
|-----------------------|------|-------|

| | |
|---------------------|--------------|
| Reference substance | Glycol ether |
|---------------------|--------------|

Vapour pressure

| | | |
|-------|-----|----|
| Value | 5,5 | Pa |
|-------|-----|----|

| | |
|---------------------|--------------|
| Reference substance | Glycol ether |
|---------------------|--------------|

Density

| | | |
|-------|-------|-------------------|
| Value | 1,065 | g/cm ³ |
|-------|-------|-------------------|

| | | |
|-----------------------|----|----|
| Reference temperature | 20 | °C |
|-----------------------|----|----|

Solubility in water

| | |
|---------|----------|
| Remarks | miscible |
|---------|----------|

pH value

| | |
|-------|------|
| Value | 10.7 |
|-------|------|

| | | |
|-----------------------|----|----|
| Reference temperature | 20 | °C |
|-----------------------|----|----|

10.) Stability and reactivity

Materials to avoid

Oxidizing agents; Acids

Hazardous decomposition products

No hazardous decomposition products known.

11.) Toxicological information

Experience in practice

The product can cause skin and eye irritation.
Possibility of sensitisation through skin contact.

Other information (chapter 11.)

Product specific toxicological data are not known.

12.) Ecological information

Other adverse effects

Ecological data are not available.
Do not discharge product unmonitored into the environment.

Trade name: BöttcherPro Hydroclean

Status: 20.07.2007

Product no.: 10810-2

Version: 2.4.0 / GB

Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 b, D-21107 Hamburg

Tel.: +49 40 / 41 92 13 00 Fax: +49 40 / 41 92 13 57 e-mail: umco@umco.de

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.