

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 24.06.2022

Version number 5

Revision: 24.06.2022

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name** **MC-Duroprop B**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture** Alkaline cleaner/ detergent
- **1.3 Details of the supplier of the safety data sheet**
- **Informing department:** msds@mc-bauchemie.de
- **1.4 Emergency telephone number:** Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +48612864565

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
 Acute Tox. 4 H332 Harmful if inhaled.  
 Skin Corr. 1B H314 Causes severe skin burns and eye damage.  
 Eye Dam. 1 H318 Causes serious eye damage.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**

GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:** 2-butoxyethanol  
potassium hydroxide
- **Hazard statements** H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**

P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture consisting of the following components.

#### Dangerous components:

CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥10-<25%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide Skin Corr. 1A, H314; Acute Tox. 4, H302	≥2-<5%

**Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General information** Instantly remove any clothing soiled by the product.
- After inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- After skin contact** Instantly wash with water and soap and rinse thoroughly.
- After eye contact** Rinse opened eye for several minutes under running water. Call a doctor immediately.
- After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents** Use fire fighting measures that suit the environment.

#### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

#### 5.3 Advice for firefighters

**Protective equipment:** Put on breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water or sewage system.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.

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### 6.4 Reference to other sections

See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

### Information about protection against explosions and fires:

No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

#### Requirements to be met by storerooms and containers:

Store in cool location.  
Store only in the original container.  
Unsuitable material for container: aluminium.

#### Information about storage in one common storage facility:

Not required.

#### Further information about storage conditions:

Keep container tightly sealed.

### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Additional information about design of technical systems:

No further data; see item 7.

#### Components with critical values that require monitoring at the workplace:

##### 111-76-2 2-butoxyethanol

WEL	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 123 mg/m <sup>3</sup> , 25 ppm Sk, BMGV
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##### 1310-58-3 potassium hydroxide

WEL	Short-term value: 2 mg/m <sup>3</sup>
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#### DNELs

##### 111-76-2 2-butoxyethanol

Oral	DNEL	3.2 mg/kg bw/Tag (ArL)
Dermal	DNEL	75 mg/kg bw/day (ArL)
Inhalative	DNEL	98 mg/m <sup>3</sup> (ArL)

##### 1310-58-3 potassium hydroxide

Inhalative	DNEL	1 mg/m <sup>3</sup> (ArL)
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#### Ingredients with biological limit values:

##### 111-76-2 2-butoxyethanol

BMGV	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid
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#### Additional information:

The lists that were valid during the compilation were used as basis.

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- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Keep away from foodstuffs, beverages and food.
  - Instantly remove any soiled and impregnated garments.
  - Wash hands during breaks and at the end of the work.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:**
  - Only during spraying without adequate removal by suction.
  - In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Protection of hands:**
  - Protective gloves.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**
  - Butyl rubber, BR
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
  - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
  - Safety glasses
  - Tightly sealed safety glasses.
- **Body protection:**
  - Protective work clothing.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Whitish
Smell:	Characteristic
- **pH-value at 20 °C:** 11
- **Change in condition**

Melting point/freezing point:	< 0 °C
Initial boiling point and boiling range:	100 °C
- **Flash point:** Not applicable
- **Ignition temperature:** 240 °C
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **Critical values for explosion:**

Lower:	1.1 Vol %
Upper:	10.6 Vol %
- **Steam pressure at 20 °C:** 23 hPa
- **Density at 20 °C** 1.04 g/cm<sup>3</sup>

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- |  |  |
|--|--|
| <b>· Solubility in / Miscibility with Water:</b> | Fully miscible                             |
| <b>· Viscosity: kinematic at 20 °C:</b>          | 11 s (DIN 53211/4)                         |
| <b>· 9.2 Other information</b>                   | No further relevant information available. |

### SECTION 10: Stability and reactivity

- 10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions** No dangerous reactions known
- 10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- 11.1 Information on toxicological effects**
- Acute toxicity** Harmful if inhaled.
- LD/LC50 values that are relevant for classification:**

#### 111-76-2 2-butoxyethanol

Oral	LD50	1200 mg/kg (ATE) 1414 mg/kg (Meerschweinchen) 1300 mg/kg (rat)
	NOAEL	>100 mg/kg (Danio rerio) 100 mg/kg (rat)
	Dermal	LD50 >2000 mg/kg (Meerschweinchen)
Inhalative	LCL0	>3.1 mg/l (Meerschweinchen)
	LC50/4 h	2-20 mg/l (rat)

#### 1310-58-3 potassium hydroxide

Oral	LD50	333 mg/kg (rat)
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- Primary irritant effect:**
- Skin corrosion/irritation** Causes severe skin burns and eye damage.
- Serious eye damage/irritation** Causes serious eye damage.
- Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- Additional toxicological information:**
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- Carcinogenicity** Based on available data, the classification criteria are not met.
- Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 111-76-2 2-butoxyethanol

EC50/72h	1840 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	1474 mg/l (Oncorhynchus mykiss)
EC50/48h	1550 mg/l (Daphnia magna)
NOEC	286 mg/l (Pseudokirchneriella subcapitata) 100 mg/l (Daphnia magna)
EC0	700 mg/l (Pseudomonas putida)

##### 1310-58-3 potassium hydroxide

LC50/24h	165 mg/l (Gup)
LC50/96h	80 mg/l (Gaa)
EC50	22 mg/l (Bak)

#### · 12.2 Persistence and degradability

No further relevant information available.

#### · 12.3 Bioaccumulative potential

No further relevant information available.

#### · 12.4 Mobility in soil

No further relevant information available.

#### · Additional ecological information:

##### · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

#### · 12.5 Results of PBT and vPvB assessment

##### · PBT:

Not applicable.

##### · vPvB:

Not applicable.

#### · 12.6 Other adverse effects

No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### · Uncleaned packagings:

##### · Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

##### · Recommended cleaning agent:

Water, if necessary with cleaning agent.

### SECTION 14: Transport information

#### · 14.1 UN-Number

##### · ADR, IMDG, IATA

UN1814

#### · 14.2 UN proper shipping name

##### · ADR, IMDG, IATA

POTASSIUM HYDROXIDE SOLUTION

#### · 14.3 Transport hazard class(es)

##### · ADR

##### · Class

8 (C5) Corrosive substances.

##### · Label

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· <b>IMDG, IATA</b>	
· <b>Class</b>	8 Corrosive substances.
· <b>Label</b>	8
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
· <b>Kemler Number:</b>	80
· <b>EMS Number:</b>	F-A, S-B
· <b>Segregation groups</b>	(SGG18) Alkalis
· <b>Stowage Category</b>	A
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture** No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases** H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.
- **Department issuing data specification sheet:** Environment protection department.

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- **Abbreviations and acronyms:** RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- **\* Data compared to the previous version altered.**

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