



BE SURE. BUILD SURE.

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## Safety data sheet according to UK REACH

Printing date 17.01.2025

Version number 27 (replaces version 26)

Revision: 17.01.2025

### 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**

· **Manufacturer/Supplier:** MC-Bauchemie Müller GmbH & Co. KG  
Am Kruppwald 1-8  
D-46238 Bottrop  
Tel.: +49(0)2041-101-0  
Fax.: +49(0)2041-101-400  
E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG  
Hagackerstr. 10  
CH-8953 Dietikon  
Tel.: +44-7400510  
Fax : +44-7400533

· **Informing department:** msds@mc-bauchemie.de

· **1.4 Emergency telephone number:**

Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +1 872 5888271 (MCR)

### 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

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- **Hazard statements** H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.
- **Precautionary statements** P260 Do not breathe dusts or mists.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
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.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

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

#### · **Dangerous components:**

CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1200 mg/kg LC50/4 h inhalative: 3 mg/l	10-30%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$	$\geq 2$ -<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** Immediately remove any clothing contaminated with 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.

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· **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.

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### 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.

· **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.

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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.
- **Storage class** 8B

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

###### CAS: 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

###### CAS: 1310-58-3 potassium hydroxide

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

#### · DNELs

###### CAS: 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)

###### CAS: 1310-58-3 potassium hydroxide

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

###### CAS: 111-76-2 2-butoxyethanol

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

· **Additional information:** The lists that were valid during the compilation were used as basis.

#### · 8.2 Exposure controls

##### · Appropriate engineering controls

No further data; see section 7.

##### · Individual protection measures, such as 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 or when application is performed at confined area with adequate mechanical ventilation meeting local authority requirements, use breathing filter

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· <b>Hand protection</b>	<i>apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.</i>
· <b>Material of gloves</b>	<i>Protective gloves. After use of gloves apply skin-cleaning agents and skin cosmetics. 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.</i>
· <b>Penetration time of glove material</b>	-
· <b>Eye/face protection</b>	Not required.

### SECTION 9: Physical and chemical properties

· <b>9.1 Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Colour:</b>	Whitish
· <b>Smell:</b>	Characteristic
· <b>Melting point/freezing point:</b>	<0 °C
· <b>Boiling point or initial boiling point and boiling range</b>	100 °C
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1.1 Vol %
· <b>Upper:</b>	10.6 Vol %
· <b>Flash point:</b>	Not applicable
· <b>Auto-ignition temperature:</b>	240 °C
· <b>pH at 20 °C</b>	11
· <b>Viscosity:</b>	
· <b>Kinematic viscosity at 20 °C</b>	11 s (DIN 53211/4)
· <b>dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	Fully miscible
· <b>Steam pressure at 20 °C:</b>	23 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	1.04 g/cm <sup>3</sup>

· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.

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### Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

## 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 hazard classes as defined in Regulation (EC) No 1272/2008	
· Acute toxicity	Harmful if inhaled.

### LD/LC50 values that are relevant for classification:

CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1200 mg/kg (ATE) mg/kg (Meerschweinchen) mg/kg (rat)
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	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	3 mg/l (ATE) mg/l (rat)
<b>CAS: 1310-58-3 potassium hydroxide</b>		
Oral	LD50	333 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**CAS: 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)

**CAS: 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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### 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

- |  |                                |
|--|--------------------------------|
| · <b>14.1 UN number or ID number</b>       |                                |
| · <b>ADR, IMDG, IATA</b>                   | UN1814                         |
| · <b>14.2 UN proper shipping name</b>      |                                |
| · <b>ADR, IMDG, IATA</b>                   | POTASSIUM HYDROXIDE SOLUTION   |
| · <b>14.3 Transport hazard class(es)</b>   |                                |
| · <b>ADR</b>                               |                                |
| · <b>Class</b>                             | 8 (C5) Corrosive substances.   |
| · <b>Label</b>                             | 8                              |
| · <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) Alkalies               |
| · <b>Stowage Category</b>                  | A                              |

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· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids
· <b>14.7 Maritime transport in bulk according to IMO instruments</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.
- **Poisons Act**

#### · **Regulated explosives precursors**

None of the ingredients is listed.

#### · **Regulated poisons**

None of the ingredients is listed.

#### · **Reportable explosives precursors**

None of the ingredients is listed.

#### · **Reportable poisons**

CAS: 1310-58-3 potassium hydroxide

17% of total caustic alkalinity

#### · **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.

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· **Relevant phrases**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.

· **Department issuing data  
specification sheet:**

Environment protection department.

· **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  
ATE: Acute toxicity estimate values  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
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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