



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

1.1. Product identifier

Product form : Mixture
Product name : Heliowash WB
Product code : 1285000
Type of product : Mixture
Product group : Cleaning product.

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Cleansing agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MDC Max Daetwyler GmbH
Daimlerstraße 3
64347 Griesham - Duitsland
T +49615587130 - F +49615564210
info@daetwylergmbh.de - www.daetwylergmbh.com

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|---|---------------------------------|------------------|--|
| Belgium | Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn 1 B -1120 Brussels | +32 70 245 245 | Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1B H314

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

- P280 - Wear protective gloves, protective clothing, face shield, eye protection.
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P363 - Wash contaminated clothing before reuse.

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2.3. Other hazards

Other hazards not contributing to the classification : None.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|--|--------|---|
| 2-butoxyethanol | (CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36 | 5 – 15 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Ethanolamine | (CAS-No.) 141-43-5 (EC-No.) 205-483-3 (EC Index-No.) 603-030-00-8 (REACH-no) 01-2119486455-28 | < 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Chronic 3, H412 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Take to hospital.
First-aid measures after skin contact : Take off contaminated clothing. Rinse skin with water/shower. Transport to hospital immediately.
First-aid measures after eye contact : First prolonged rinsing with water (contact lenses to be removed if this is easily done), then take to a doctor.
First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Transport to hospital immediately.

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

Symptoms/effects after inhalation : Unconsciousness. Dizziness. Headache. Nausea. Drowsiness.
Symptoms/effects after skin contact : Pungent. Severe burns. Pain. Redness.
Symptoms/effects after eye contact : Pungent. Pain. Redness. Blurred vision.
Symptoms/effects after ingestion : Pungent. Breathing difficulties. Vomiting. Blisters. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : water spray. Powder. Foam. CO2.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None.
Explosion hazard : None.
Hazardous decomposition products in case of fire : None.

5.3. Advice for firefighters

Precautionary measures fire : No special precautions required.
Firefighting instructions : No specific firefighting instructions required.
Protection during firefighting : No specific measures are necessary.
Other information : None.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not touch spilled material. Remove contaminated clothing and shoes. Do not breathe vapour. Do not breathe fumes. Do not breathe spray.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb the product onto porous material.

6.4. Reference to other sections

See Headings 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle carefully. Avoid spillage.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed and in well ventilated place. Keep out of frost.

Storage area : Handle carefully.

Packaging materials : Suitable packing materials Plastic.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Heliowash WB | | |
|--------------|----------------------------------|--|
| | Limit value (mg/m ³) | Here follows a summary list of the hazardous components mentioned in paragraph 3, of which the TLV value is known: 98 mg/m ³ 2-butoxyethanol 2.5 mg/m ³ Ethanolamine |

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Hand protection:

Nitrile rubber gloves (EN374). Breakthrough time: > 480 Min. Layer thickness : 0,35 mm. Always wash hands after handling the product

Eye protection:

Safety glasses. Face-shield

Skin and body protection:

Impermeable clothing

Respiratory protection:

Ensure adequate air ventilation. In case of insufficient ventilation, wear suitable respiratory equipment

| Device | Filter type | Condition | Standard |
|--------|-------------|-----------|----------|
| Mask | ABEK | | |

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Odour | : Characteristic. |
| Odour threshold | : Not applicable |
| pH | : 12 @ 20°C |
| pH solution | : /. |
| Relative evaporation rate (butylacetate=1) | : 0.3 |
| Melting point | : 0 °C |
| Freezing point | : No data available |
| Boiling point | : 100 – 171 °C |
| Flash point | : /. |
| Critical temperature | : /. |
| Auto-ignition temperature | : 230 °C |
| Decomposition temperature | : /. |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : 2332 Pa @ 20 °C |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1 kg/l @ 20°C |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : 1 mm²/s @ 20 °C |
| Viscosity, dynamic | : 1 mPa·s @ 20 °C |
| Explosive properties | : Not applicable. |
| Oxidising properties | : Not applicable. |
| Lower explosive limit (LEL) | : 1.13 vol % |
| Upper explosive limit (UEL) | : 10.6 vol % |

9.2. Other information

| | |
|-------------|-----------|
| VOC content | : 11.25 % |
|-------------|-----------|

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Extremely high or low temperatures.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

10.5. Incompatible materials

Keep away from (strong) acids.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Additional information | : See Heading 3 (Information on ingredients). |

2-butoxyethanol (111-76-2)

| | |
|---------------|------------------|
| LD50 oral rat | 300 – 2000 mg/kg |
|---------------|------------------|

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| 2-butoxyethanol (111-76-2) | |
|-----------------------------------|--|
| LD50 dermal rabbit | 1000 – 2000 mg/kg |
| LC50 inhalation rat (mg/l) | 2.1 – 20 mg/l/4h |
| Ethanolamine (141-43-5) | |
| LD50 oral rat | 1089 mg/kg |
| LD50 dermal rabbit | 2504 mg/kg |
| LC50 inhalation rat (mg/l) | 11 mg/l/4h |
| Skin corrosion/irritation | : Causes severe skin burns. pH: 12 @ 20°C |
| Serious eye damage/irritation | : Assumed to cause serious eye damage pH: 12 @ 20°C |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Heliowash WB | |
| Viscosity, kinematic | 1 mm²/s @ 20 °C |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|------------------|
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| 2-butoxyethanol (111-76-2) | |
|----------------------------|--------------------------------------|
| LC50 fish 1 | 1474 mg/l (Oncorhynchus mykiss, 96h) |
| EC50 Daphnia 1 | 1550 mg/l (Daphnia, 48h) |
| EC50 72h algae (1) | > 100 mg/l |
| NOEC chronic fish | > 100 mg/l Danio rerio |
| NOEC chronic crustacea | > 100 mg/l (Daphnia, 72h) |
| NOEC chronic algae | > 280 mg/l (72h) |
| Ethanolamine (141-43-5) | |
| LC50 fish 1 | 349 mg/l (Cyprinus carpio, 4d) |
| EC50 Daphnia 1 | 65 mg/l |
| EC50 72h algae (1) | 2.1 – 2.8 mg/l |
| NOEC chronic fish | 1.24 mg/l (Oryzias latipes, 41d) |
| NOEC chronic crustacea | 0.85 mg/l (21d) |
| NOEC chronic algae | 1 mg/l (72h) |

12.2. Persistence and degradability

| Heliowash WB | |
|-------------------------------|---|
| Persistence and degradability | This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |

12.3. Bioaccumulative potential

| Ethanolamine (141-43-5) | |
|---|------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.3 – 1.31 |

12.4. Mobility in soil

| Heliowash WB | |
|----------------|-------------------------------------|
| Ecology - soil | WGK 1. Completely soluble in water. |

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Comply with local regulations for disposal.
Waste treatment methods : In case the undiluted product is discharged accidentally, neutralize to pH 7.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR

14.1. UN number

UN-No. (ADR) : 1719

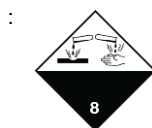
14.2. UN proper shipping name

Proper Shipping Name (ADR) : Caustic alkali liquid, n.o.s.
Transport document description (ADR) : UN 1719 Caustic alkali liquid, n.o.s. (mixture with Ethanolamine), 8, III, (E)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



14.4. Packing group

Packing group (ADR) : III

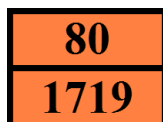
14.5. Environmental hazards

Dangerous for the environment : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel restriction code (ADR) : E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 11.25 %

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Indication of changes:

| Section | Changed item | Change | Comments |
|---------|--------------|--------|----------|
| 9.1 | | | |
| 16 | | | |

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

| | |
|---------------|------|
| Skin Corr. 1B | H314 |
|---------------|------|

Full text of H- and EUH-statements:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

<Ontbrekende vertaling : />

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.