

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Heliowash WB Inline  
Product code : 1285190-5  
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 : Industrial use

##### 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  
Raiffeisenstraße 27  
DE 64347 Griesheim  
Duitsland  
T +49615587130, F +49615564210  
[info@daetwylergmbh.de](mailto:info@daetwylergmbh.de), [www.daetwylergmbh.com](http://www.daetwylergmbh.com)

#### 1.4. Emergency telephone number

| Country/Area | Organisation                                                                                                                                                                                           | Emergency number   |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Germany      | Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen.<br>Klinische Toxikologie. Universitätsmedizin der Johannes Gutenberg-Universität Mainz.<br>Langenbeckstraße 1. Gebäude 601 55131 Mainz. | +49 (0) 6131 19240 |

### 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 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
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)

:



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P264 - Wash hands thoroughly after handling.

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P280 - Wear protective gloves, protective clothing, eye protection, face shield.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 - If skin irritation occurs: Get medical advice/attention. medical advice.  
P337+P313 - If eye irritation persists: Get medical advice/attention. medical advice.

### 2.3. Other hazards

Other hazards which do not result in classification : None.

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                                                                | Product identifier                                                                                 | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                      |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-(2-butoxyethoxy)ethanol                                           | CAS-No.: 112-34-5<br>EC-No.: 203-961-6<br>EC Index-No.: 603-096-00-8<br>REACH-no: 01-2119475104-44 | $\leq 7$ | Eye Irrit. 2, H319                                                                                                                                                                   |
| Ethanolamine<br>substance with a Community workplace exposure limit | CAS-No.: 141-43-5<br>EC-No.: 205-483-3<br>EC Index-No.: 603-030-00-8<br>REACH-no: 01-2119486455-28 | $\leq 3$ | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |

### Specific concentration limits:

| Name         | Product identifier                                                                                 | Specific concentration limits (%)       |
|--------------|----------------------------------------------------------------------------------------------------|-----------------------------------------|
| Ethanolamine | CAS-No.: 141-43-5<br>EC-No.: 205-483-3<br>EC Index-No.: 603-030-00-8<br>REACH-no: 01-2119486455-28 | ( $5 \leq C \leq 100$ ) STOT SE 3; H335 |

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. If necessary seek medical advice.                  |
| 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.                           |

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

|                                     |                                                               |
|-------------------------------------|---------------------------------------------------------------|
| Symptoms/effects after inhalation   | : None.                                                       |
| Symptoms/effects after skin contact | : None.                                                       |
| Symptoms/effects after eye contact  | : Redness.                                                    |
| Symptoms/effects after ingestion    | : Vomiting. abdominal cramps. Diarrhea. Headache. Drowsiness. |

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

None.

## 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. |

### 5.3. Advice for firefighters

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| Precautionary measures fire | : No special precautions required.                |
| Firefighting instructions   | : No specific firefighting instructions required. |
| Other information           | : None.                                           |

## SECTION 6: Accidental release measures

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

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

#### 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. |
| Packaging materials | : Suitable packing materials: Plastic.                                           |

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### Germany

Storage class (LGK, TRGS 510)

: LGK 12 - Non-combustible liquids

### 7.3. Specific end use(s)

Cleaning product.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| Heliowash WB Inline                                |                                                |
|----------------------------------------------------|------------------------------------------------|
| Germany - Occupational Exposure Limits (TRGS 900)  |                                                |
| AGW (OEL TWA)                                      | 50 mg/m <sup>3</sup> 2-(2-butoxyethoxy)ethanol |
|                                                    | 2.5 ppm Ethanolamine                           |
| Ethanolamine (141-43-5)                            |                                                |
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                |
| IOEL TWA                                           | 2.5 mg/m <sup>3</sup> (8 Hr).                  |
|                                                    | 1 ppm                                          |
| IOEL STEL                                          | 7.6 mg/m <sup>3</sup> (8 Hr).                  |
|                                                    | 3 ppm                                          |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

The level of protection and types of measures depend on workplace conditions. Adequate ventilation must be provided so that exposure limits are not exceeded. For more information, see section 7.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses. Face-shield

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### 8.2.2.2. Skin protection

#### Skin and body protection:

Impermeable clothing

#### Hand protection:

Nitrile rubber gloves. Breakthrough time: > 480 Min, (EN 374). Layer thickness : 0,35 mm. Always wash hands after handling the product

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

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

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

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Comply with relevant environmental regulations limiting discharges to air, water and soil. Protect the environment by applying proper control measures to prevent or reduce releases. For more information, see sections 6 and 13.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                      |
|-------------------------------------------------|----------------------|
| Physical state                                  | : Liquid             |
| Colour                                          | : Colourless.        |
| Appearance                                      | : Clear.             |
| Odour                                           | : Characteristic.    |
| Odour threshold                                 | : Not available      |
| Melting point                                   | : 0 °C               |
| Freezing point                                  | : Not available      |
| Boiling point                                   | : 100 – 233 °C       |
| Flammability                                    | : Not applicable.    |
| Explosive properties                            | : Not applicable.    |
| Oxidising properties                            | : Not applicable.    |
| Lower explosive limit (LEL)                     | : 0.85 Vol-%         |
| Upper explosive limit (UEL)                     | : 24.6 Vol-%         |
| Flash point                                     | : /                  |
| Auto-ignition temperature                       | : 200 °C             |
| Decomposition temperature                       | : No data available. |
| pH                                              | : 11 @ 20 °C.        |
| pH solution                                     | : Not applicable.    |
| Viscosity, kinematic                            | : 1 mm²/s @ 20 °C.   |
| Viscosity, dynamic                              | : 1 mPa·s @ 20 °C.   |
| Solubility                                      | : Soluble in water.  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available      |
| Vapour pressure                                 | : 2332 Pa @ 20 °C.   |
| Vapour pressure at 50°C                         | : Not available      |
| Density                                         | : 1 kg/l @ 20 °C.    |
| Relative density                                | : Not available      |
| Relative vapour density at 20°C                 | : Not available      |
| Particle characteristics                        | : Not applicable     |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

|                  |                     |
|------------------|---------------------|
| Explosion limits | : 0.85 – 24.6 Vol-% |
|------------------|---------------------|

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### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : 0.3  
VOC content : 2.81 %

## 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.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Acids. Bases. Oxidizing agents. Reducing agents.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

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|                  |            |
|------------------|------------|
| LD50 oral rat    | /.         |
| ATE CLP (dermal) | 2000 mg/kg |

#### 2-(2-butoxyethoxy)ethanol (112-34-5)

|                       |              |
|-----------------------|--------------|
| LD50 oral rat         | 3305 mg/kg   |
| LD50 dermal rabbit    | ≥ 2764 mg/kg |
| LC50 Inhalation - Rat | ≥ 50 mg/l/4h |

#### Ethanolamine (141-43-5)

|                       |            |
|-----------------------|------------|
| LD50 oral rat         | 1089 mg/kg |
| LD50 dermal rabbit    | 1100 mg/kg |
| LC50 Inhalation - Rat | 11 mg/l/4h |

Skin corrosion/irritation : Causes skin irritation.  
pH: 11 @ 20 °C.  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: 11 @ 20 °C.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified

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STOT-single exposure : Not classified

### Ethanolamine (141-43-5)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### Heliowash WB Inline

Viscosity, kinematic 1 mm<sup>2</sup>/s @ 20 °C.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : No data available.

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

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

### 2-(2-butoxyethoxy)ethanol (112-34-5)

LC50 - Fish [1] 1300 mg/l (96 hr, (Lepomis microlophus)

EC50 - Crustacea [1] > 100 mg/l (Daphnia)

ErC50 algae > 100 mg/l

### Ethanolamine (141-43-5)

LC50 - Fish [1] 349 mg/l (Cyprinus carpio, 4d)

EC50 - Crustacea [1] 65 mg/l (Daphnia)

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

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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.

### 2-(2-butoxyethoxy)ethanol (112-34-5)

Persistence and degradability Rapidly degradable

Biodegradation 100 % 28 days (OECD 302 B)

### Ethanolamine (141-43-5)

Persistence and degradability Rapidly degradable

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### 12.3. Bioaccumulative potential

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|                           |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No data available. |
|---------------------------|--------------------|

#### Ethanolamine (141-43-5)

|                                                 |              |
|-------------------------------------------------|--------------|
| Partition coefficient n-octanol/water (Log Pow) | -2.3 – -1.31 |
|-------------------------------------------------|--------------|

### 12.4. Mobility in soil

#### Heliowash WB Inline

|                |        |
|----------------|--------|
| Ecology - soil | WGK 1. |
|----------------|--------|

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : No additional information available.

### 12.7. Other adverse effects

#### Heliowash WB Inline

|                   |                   |
|-------------------|-------------------|
| Other information | No data available |
|-------------------|-------------------|

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                 |
|--------------------------------------------|---------------------------------------------------------------------------------|
| Regional waste regulation                  | : 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 or ID number

|              |                 |
|--------------|-----------------|
| UN-No. (ADR) | : Not regulated |
|--------------|-----------------|

### 14.2. UN proper shipping name

|                            |                 |
|----------------------------|-----------------|
| Proper Shipping Name (ADR) | : Not regulated |
|----------------------------|-----------------|

### 14.3. Transport hazard class(es)

#### ADR

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADR) | : Not regulated |
|----------------------------------|-----------------|

### 14.4. Packing group

|                     |                 |
|---------------------|-----------------|
| Packing group (ADR) | : Not regulated |
|---------------------|-----------------|

### 14.5. Environmental hazards

|                   |                                          |
|-------------------|------------------------------------------|
| Other information | : No supplementary information available |
|-------------------|------------------------------------------|

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### 14.6. Special precautions for user

#### Overland transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

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

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### VOC Directive (2004/42)

VOC content : 2.81 %

##### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.

VOC content : 2.81 %

### 15.2. Chemical safety assessment

No data available

## SECTION 16: Other information

### Indication of changes

| Section | Changed item | Comments |
|---------|--------------|----------|
| 3.2     |              |          |

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### Indication of changes

| Section | Changed item | Comments |
|---------|--------------|----------|
| 16      |              |          |

### 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 (Oral)       | Acute toxicity (oral), Category 4                                                          |
| Aquatic Chronic 3         | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1                                              |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                                              |
| Skin Corr. 1B             | Skin corrosion/irritation, Category 1, Sub-Category 1B                                     |
| 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.                                                                    |
| H318                      | Causes serious eye damage.                                                                 |
| H319                      | Causes serious eye irritation.                                                             |
| H332                      | Harmful if inhaled.                                                                        |
| H335                      | May cause respiratory irritation.                                                          |
| H412                      | Harmful to aquatic life with long lasting effects.                                         |

Safety Data Sheet (SDS), EU

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.