

Trade name: Green Star BMP**Product no.:** 66999**Current version :** 1.0.0, issued: 30.10.2020**Replaced version:** -, issued: -**Region:** MT**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

Green Star BMP**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

General purpose cleaner

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

1.4 Emergency telephone number

No data available.

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Dam. 1; H318

Skin Irrit. 2; H315

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05

Signal word

Danger

Hazardous component(s) to be indicated on label:

2-propylheptane-1-ol, ethoxylated

Hazard statement(s)

H315

Causes skin irritation.

H318

Causes serious eye damage.

Precautionary statement(s)

P280

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

Trade name: Green Star BMP**Product no.:** 66999**Current version :** 1.0.0, issued: 30.10.2020**Replaced version:** -, issued: -**Region:** MT

P302+P352 IF ON SKIN: Wash with plenty of 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.
 P310 Immediately call a POISON CENTER/doctor.
 P362+P364 Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

| No | Substance name | | Additional information | |
|----|--|---|------------------------|-----|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | % |
| 1 | 2-propylheptane-1-ol, ethoxylated | | | |
| | 160875-66-1 - - - | Eye Dam. 1; H318 Acute Tox. 4; H302 | >= 10,00 - < 25,00 | wt% |
| 2 | 2-(2-butoxyethoxy)ethanol | | | |
| | 112-34-5 203-961-6 603-096-00-8 01-2119475104-44 | Eye Irrit. 2; H319 | < 5,00 | wt% |
| 3 | nitritotrimethylenetrakis(phosphonic acid) | | | |
| | 6419-19-8 229-146-5 - 01-2119487988-08 | Eye Irrit. 2; H319 Met. Corr. 1; H290 | < 2,50 | wt% |
| 4 | sodium hydroxide | | | |
| | 1310-73-2 215-185-5 011-002-00-6 01-2119457892-27 | Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318 | < 2,50 | wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 4 | - | Skin Irrit. 2; H315: C >= 0,5% Eye Irrit. 2; H319: C >= 0,5% Skin Corr. 1B; H314: C >= 2% Skin Corr. 1A; H314: C >= 5% | - | - |

SECTION 4: First aid measures

Trade name: Green Star BMP

Product no.: 66999

Current version : 1.0.0, issued: 30.10.2020

Replaced version: -, issued: -

Region: MT

4.1 Description of first aid measures

General information

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

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

After skin contact

Wash immediately with plenty of water for several minutes. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

Trade name: Green Star BMP

Product no.: 66999

Current version : 1.0.0, issued: 30.10.2020

Replaced version: -, issued: -

Region: MT

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

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

Requirements for storage rooms and vessels

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

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

| No | Substance name | CAS no. | EC no. |
|--|---|----------|--------------------------|
| 1 | 2-(2-butoxyethoxy)ethanol | 112-34-5 | 203-961-6 |
| Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act) | | | |
| 2-(2-Butoxyethoxy)ethanol | | | |
| | WEL short-term (15 min reference period) | 101.2 | mg/m ³ 15 ppm |
| | WEL long-term (8-hr TWA reference period) | 67.5 | mg/m ³ 10 ppm |
| 2006/15/EC | | | |
| 2-(2-Butoxyethoxy)ethanol | | | |
| | WEL short-term (15 min reference period) | 101,2 | mg/m ³ 15 ppm |
| | WEL long-term (8-hr TWA reference period) | 67,5 | mg/m ³ 10 ppm |

DNEL, DMEL and PNEC values**DNEL values (worker)**

| No | Substance name | | | CAS / EC no | |
|----|--|---------------------|----------|------------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | 2-(2-butoxyethoxy)ethanol | | | 112-34-5 203-961-6 | |
| | dermal | Long term (chronic) | systemic | 20 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 67,5 | mg/m ³ |
| | inhalative | Long term (chronic) | local | 67,5 | mg/m ³ |
| | inhalative | Short term (acute) | local | 101,2 | mg/m ³ |
| 2 | nitriлотrimethylenetris(phosphonic acid) | | | 6419-19-8 229-146-5 | |
| | dermal | Long term (chronic) | systemic | 2,75 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 9,7 | mg/m ³ |
| 3 | sodium hydroxide | | | 1310-73-2 | |

Trade name: Green Star BMP

Product no.: 66999

Current version : 1.0.0, issued: 30.10.2020

Replaced version: -, issued: -

Region: MT

| | | | | |
|------------|---------------------|-------|---|-------------------|
| | | | | 215-185-5 |
| inhalative | Long term (chronic) | local | 1 | mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no |
|----|---|---------------------|----------|--------------------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | 2-(2-butoxyethoxy)ethanol | | | 112-34-5 203-961-6 |
| | oral | Long term (chronic) | systemic | 1,25 mg/kg/day |
| | dermal | Long term (chronic) | systemic | 10 mg/kg/day |
| | inhalative | Long term (chronic) | local | 34 mg/m ³ |
| | inhalative | Long term (chronic) | systemic | 34 mg/m ³ |
| | inhalative | Short term (acut) | local | 50,6 mg/m ³ |
| 2 | nitrilotrimethylenetris(phosphonic acid) | | | 6419-19-8 229-146-5 |
| | oral | Long term (chronic) | systemic | 1,38 mg/kg/day |
| | oral | Short term (acut) | systemic | 1,38 mg/kg/day |
| | dermal | Long term (chronic) | systemic | 1,38 mg/kg/day |
| | dermal | Short term (acut) | systemic | 1,38 mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 2,39 mg/m ³ |
| | inhalative | Short term (acut) | systemic | 2,39 mg/m ³ |
| 3 | sodium hydroxide | | | 1310-73-2 215-185-5 |
| | inhalative | Long term (chronic) | local | 1 mg/m ³ |

PNEC values

| No | Substance name | | | CAS / EC no |
|----|---|-----------------------|--|--------------------------------------|
| | ecological compartment | Type | | Value |
| 1 | 2-(2-butoxyethoxy)ethanol | | | 112-34-5 203-961-6 |
| | water | fresh water | | 1,0 mg/L |
| | water | fresh water sediment | | 4,0 mg/kg |
| | with reference to: dry weight | | | |
| | water | marine water | | 0,1 mg/L |
| | water | marine water sediment | | 0,4 mg/kg |
| | with reference to: dry weight | | | |
| | water | Aqua intermittent | | 3,9 mg/L |
| | soil | - | | 0,4 mg/kg |
| | sewage treatment plant | - | | 200 mg/L |
| 2 | nitrilotrimethylenetris(phosphonic acid) | | | 6419-19-8 229-146-5 |
| | water | fresh water | | 0,46 mg/L |
| | water | marine water | | 0,046 mg/L |
| | water | fresh water sediment | | 150 mg/kg dry weight |
| | water | marine water sediment | | 15 mg/kg dry weight |
| | soil | - | | 244 mg/kg dry weight |
| | sewage treatment plant | - | | 20 mg/L |
| | secondary poisoning | - | | 0,17 g/kg |
| | with reference to: food | | | |

8.2 Exposure controls**Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Trade name: Green Star BMP**Product no.:** 66999**Current version :** 1.0.0, issued: 30.10.2020**Replaced version: -**, issued: -**Region:** MT**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.

Eye / face protection

Tightly fitting safety glasses (EN 166).

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 gloves 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.

| | | | |
|----------------------|--------------|-----|-----|
| Appropriate Material | butyl rubber | | |
| Material thickness | | 0,5 | mm |
| Breakthrough time | > | 120 | min |

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|--|----------|
| Form/Colour | |
| liquid | |
| green | |
| Odour | |
| fruity | |
| Odour threshold | |
| No data available | |
| pH value | |
| Value | 9,5 |
| Boiling point / boiling range | |
| Value | > 100 °C |
| Melting point / melting range | |
| No data available | |
| Decomposition point / decomposition range | |
| No data available | |
| Flash point | |
| No data available | |
| Auto-ignition temperature | |
| No data available | |
| Oxidising properties | |
| not oxidizing | |
| Explosive properties | |
| Product does not present an explosion hazard. | |
| Flammability (solid, gas) | |

Trade name: Green Star BMP**Product no.:** 66999**Current version :** 1.0.0, issued: 30.10.2020**Replaced version:** -, issued: -**Region:** MT

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

| | | |
|-----------------------|------|-------------------|
| Value | 1,05 | g/cm ³ |
| Reference temperature | 20 | °C |

Solubility in water

| | |
|----------|----------|
| Comments | miscible |
|----------|----------|

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

9.2 Other information**Other information**

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute oral toxicity (result of the ATE calculation for the mixture)**

Trade name: Green Star BMP

Product no.: 66999

Current version : 1.0.0, issued: 30.10.2020

Replaced version: -, issued: -

Region: MT

| No | Product Name | | |
|--|------------------|---|-----------|
| 1 | Green Star BMP | | |
| Comments | | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). | |
| Acute oral toxicity | | | |
| No data available | | | |
| Acute dermal toxicity | | | |
| No data available | | | |
| Acute inhalational toxicity | | | |
| No data available | | | |
| Skin corrosion/irritation | | | |
| No data available | | | |
| Serious eye damage/irritation | | | |
| No data available | | | |
| Respiratory or skin sensitisation | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | sodium hydroxide | 1310-73-2 | 215-185-5 |
| Route of exposure | | Skin | |
| Species | | Human | |
| Source | | ECHA | |
| Evaluation | | non-sensitizing | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Germ cell mutagenicity | | | |
| No data available | | | |
| Reproduction toxicity | | | |
| No data available | | | |
| Carcinogenicity | | | |
| No data available | | | |
| STOT - single exposure | | | |
| No data available | | | |
| STOT - repeated exposure | | | |
| No data available | | | |
| Aspiration hazard | | | |
| No data available | | | |

SECTION 12: Ecological information**12.1 Toxicity**

| Toxicity to fish (acute) | | | |
|------------------------------------|------------------|-----------|-----------|
| No data available | | | |
| Toxicity to fish (chronic) | | | |
| No data available | | | |
| Toxicity to Daphnia (acute) | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | sodium hydroxide | 1310-73-2 | 215-185-5 |
| EC50 | | 40,4 | mg/l |

Trade name: Green Star BMP**Product no.:** 66999**Current version :** 1.0.0, issued: 30.10.2020**Replaced version:** -, issued: -**Region:** MT

| | | |
|----------------------|-------------------|---|
| Duration of exposure | 48 | h |
| Species | Ceriodaphnia spec | |
| Source | ECHA | |

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment | |
|------------------------------------|--|
| PBT assessment | According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT. |
| vPvB assessment | According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB. |

12.6 Other adverse effects

No data available.

12.7 Other information**Other information**

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Trade name: Green Star BMP**Product no.:** 66999**Current version :** 1.0.0, issued: 30.10.2020**Replaced version:** -, issued: -**Region:** MT

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

| | |
|--|------|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. | No 3 |
|--|------|

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name | CAS no. | EC no. | No |
|----|---------------------------|----------|-----------|----|
| 1 | 2-(2-butoxyethoxy)ethanol | 112-34-5 | 203-961-6 | 55 |

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product. Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Trade name: Green Star BMP**Product no.:** 66999**Current version :** 1.0.0, issued: 30.10.2020**Replaced version:** -, issued: -**Region:** MT

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |

Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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