

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

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

+353 1 809 2166 (National Poisons Information Centre)

**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.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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	<b>2-propylheptane-1-ol, ethoxylated</b>			
	160875-66-1 - - -	Eye Dam. 1; H318 Acute Tox. 4; H302	>= 10,00 - < 25,00	wt%
2	<b>2-(2-butoxyethoxy)ethanol</b>			
	112-34-5 203-961-6 603-096-00-8 01-2119475104-44	Eye Irrit. 2; H319	< 5,00	wt%
3	<b>nitrilotrimethylenetris(phosphonic acid)</b>			
	6419-19-8 229-146-5 - 01-2119487988-08	Eye Irrit. 2; H319 Met. Corr. 1; H290	< 2,50	wt%
4	<b>sodium hydroxide</b>			
	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%
5	<b>2,2',2"-nitrilotriethanol</b>			
	102-71-6 203-049-8 - -	-	>= 5,00 - < 10,00	wt%

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

No	Note	Specific concentration limits	M-factor	M-factor
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			(acute)	(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****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 (CO<sub>2</sub>); Nitrogen oxides (NO<sub>x</sub>)

**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**

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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.

**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',2''-nitrilotriethanol	102-71-6	203-049-8
<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>			
Triethanolamine			
	WEL long-term (8-hr TWA reference period)	5	mg/m <sup>3</sup>
2	2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6
<b>2006/15/EC</b>			
2-(2-Butoxyethoxy)ethanol			
	WEL short-term (15 min reference period)	101,2	mg/m <sup>3</sup> 15 ppm
	WEL long-term (8-hr TWA reference period)	67,5	mg/m <sup>3</sup> 10 ppm
<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>			
2-(2-Butoxyethoxy)ethanol			
	WEL short-term (15 min reference period)	101,2	mg/m <sup>3</sup> 15 ppm
	WEL long-term (8-hr TWA reference period)	67,5	mg/m <sup>3</sup> 10 ppm
	Comments	IOELV	
3	sodium hydroxide	1310-73-2	215-185-5
<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>			
Sodium hydroxide			
	WEL short-term (15 min reference period)	2	mg/m <sup>3</sup>

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**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 <sup>3</sup>
	inhalative	Long term (chronic)	local	67,5	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	101,2	mg/m <sup>3</sup>
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 <sup>3</sup>
3	sodium hydroxide			1310-73-2 215-185-5	
	inhalative	Long term (chronic)	local	1	mg/m <sup>3</sup>

**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 <sup>3</sup>
	inhalative	Long term (chronic)	systemic	34	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	50,6	mg/m <sup>3</sup>
2	nitriлотrimethylenetris(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 <sup>3</sup>
	inhalative	Short term (acut)	systemic	2,39	mg/m <sup>3</sup>
	3	sodium hydroxide			1310-73-2 215-185-5
inhalative		Long term (chronic)	local	1	mg/m <sup>3</sup>

**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	nitriлотrimethylenetris(phosphonic acid)		6419-19-8 229-146-5	

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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.

### 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 workstation 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

<b>Form/Colour</b>	
liquid	
green	
<b>Odour</b>	
fruity	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	9,5
<b>Boiling point / boiling range</b>	
Value	> 100 °C

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<b>Melting point / melting range</b>
No data available

<b>Decomposition point / decomposition range</b>
No data available

<b>Flash point</b>
No data available

<b>Auto-ignition temperature</b>
No data available

<b>Oxidising properties</b>
not oxidizing

<b>Explosive properties</b>
Product does not present an explosion hazard.

<b>Flammability (solid, gas)</b>
No data available

<b>Lower flammability or explosive limits</b>
No data available

<b>Upper flammability or explosive limits</b>
No data available

<b>Vapour pressure</b>
No data available

<b>Vapour density</b>
No data available

<b>Evaporation rate</b>
No data available

<b>Relative density</b>
No data available

<b>Density</b>	
Value	1,05 g/cm <sup>3</sup>
Reference temperature	20 °C

<b>Solubility in water</b>	
Comments	miscible

<b>Solubility(ies)</b>
No data available

<b>Partition coefficient: n-octanol/water</b>
No data available

<b>Viscosity</b>
No data available

**9.2 Other information**

<b>Other information</b>
No data available.

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

No data available.

**10.2 Chemical stability**

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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**

<b>Acute oral toxicity (result of the ATE calculation for the mixture)</b>	
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).

<b>Acute oral toxicity</b>
No data available

<b>Acute dermal toxicity</b>
No data available

<b>Acute inhalational toxicity</b>
No data available

<b>Skin corrosion/irritation</b>
No data available

<b>Serious eye damage/irritation</b>
No data available

<b>Respiratory or skin sensitisation</b>			
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.	

<b>Germ cell mutagenicity</b>
No data available

<b>Reproduction toxicity</b>
No data available

<b>Carcinogenicity</b>
No data available

<b>STOT - single exposure</b>
No data available

<b>STOT - repeated exposure</b>



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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
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.

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

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 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
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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

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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.

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](mailto: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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