

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Kylarglykol

**Product no.**

-

**REACH registration number**

01-2119456816-28

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

**Relevant identified uses of the substance or mixture**

NA

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

Blue & Green AB  
Stenorsvägen 52  
261 44 Landskrona  
Sweden  
Tfn: +46 418 399000  
Fax: +46 418 13199  
www.blueandgreen.se

**E-mail**

info@blueandgreen.se

**SDS date**

2020-11-17

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Acute Tox. 4; H302  
STOT RE 2 (oral); H373  
See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Warning

**Hazard statement(s)**

Harmful if swallowed. (H302)  
May cause damage to organs through prolonged or repeated exposure (Kidney, Liver). (H373)

**Precautionary statements**

According to EC-Regulation 2015/830

<b>General</b>	If medical advice is needed, have product container or label at hand. (P101). Keep out of reach of children. (P102).
<b>Prevention</b>	Do not breathe mist/vapours/fume/spray. (P260). Wash hands/exposed skin thoroughly after handling. (P264).
<b>Response</b>	Get medical advice/attention if you feel unwell. (P314).
<b>Storage</b>	-
<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant. (P501).

**Identity of the substances primarily responsible for the major health hazards**

ethanediol ethylene glycol . Index-no.: 603-027-00-1

**Additional labelling**

Not applicable

**Unique formula identifier (UFI)**

M7U0-UF5P-U20W-SVQ2

**2.3. Other hazards**

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

**Additional warnings**

Tactile warning.

**VOC (volatile organic compound)**

Not applicable

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

**3.1/3.2. Substances/Mixtures**

NAME:	ethanediol ethylene glycol
IDENTIFICATION NOS.:	CAS-no: 107-21-1 EC-no: 203-473-3 REACH-no: 01-2119456816-28 Index-no: 603-027-00-1
CONTENT:	95-100%
CLP CLASSIFICATION:	Acute Tox. 4, STOT RE 2 H302, H373
NOTE:	O L

(\* ) O = Organic solvent L = European occupational exposure limit. See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

ATEmix(oral) = 400 - 600

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

**Inhalation**

Bring the person into fresh air and stay with him/her.

**Skin contact**

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water.

**Eye contact**

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

**Ingestion**

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

**Burns**

According to EC-Regulation 2015/830

Not applicable

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

This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: headache, dizziness, ringing in ears, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

Call a POISON CENTER/doctor if you feel unwell.

**Information to medic**

Bring this safety data sheet.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist.

**5.2. Special hazards arising from the substance or mixture**

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

**SECTION 6: Accidental release measures**

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

Avoid direct contact with spilled substances.

**6.2. Environmental precautions**

No specific requirements.

**6.3. Methods and material for containment and cleaning up**

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

**6.4. Reference to other sections**

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

**7.2. Conditions for safe storage, including any incompatibilities**

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Storage temperature**

No data available.

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**OEL**

ethanediol ethylene glycol

Long-term exposure limit (8-hour TWA reference period): 20(vapour) ppm | 10(par)/52(vap) mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 40 (vapour) ppm | 104 (vapour) mg/m<sup>3</sup>

Comments: Sk, par: particulate, vap: vapour (Sk = Can be absorbed through skin. )

**DNEL / PNEC**

DNEL ( ethanediol ethylene glycol ): 35 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

Remarks: Registration dossier ECHA

According to EC-Regulation 2015/830

DNEL ( ethanediol ethylene glycol ): 106 mg/kg bw/day  
 Exposure: Dermal  
 Duration of Exposure: Long term – Systemic effects - Workers  
 Remarks: Registration dossier ECHA

DNEL ( ethanediol ethylene glycol ): 53 mg/kg bw/day  
 Exposure: Dermal  
 Duration of Exposure: Long term – Systemic effects - General population  
 Remarks: Registration dossier ECHA

DNEL ( ethanediol ethylene glycol ): 7 mg/m<sup>3</sup>  
 Exposure: Inhalation  
 Duration of Exposure: Long term – Local effects - Workers  
 Remarks: Registration dossier ECHA

PNEC ( ethanediol ethylene glycol ): 1,53 mg/kg  
 Exposure: Soil  
 Remarks: Registration dossier ECHA

PNEC ( ethanediol ethylene glycol ): 3,7 mg/kg dw  
 Exposure: Marine water sediment  
 Remarks: Registration dossier ECHA

PNEC ( ethanediol ethylene glycol ): 37 mg/kg dw  
 Exposure: Freshwater sediment  
 Remarks: Registration dossier ECHA

PNEC ( ethanediol ethylene glycol ): 199,5 mg/l  
 Exposure: Sewage Treatment Plant  
 Remarks: Registration dossier ECHA

PNEC ( ethanediol ethylene glycol ): 10 mg/l  
 Exposure: Freshwater  
 Remarks: Registration dossier ECHA

PNEC ( ethanediol ethylene glycol ): 1 mg/l  
 Exposure: Marine water  
 Remarks: Registration dossier ECHA

## 8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Observe general occupational hygiene standards.

### Exposure scenarios

There is no appendix to this safety data sheet.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### Appropriate technical measures

Ensure emergency eyewash and -showers are clearly marked.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

### Individual protection measures, such as personal protective equipment



#### Generally

Use only CE marked protective equipment.

#### Respiratory Equipment

NA

#### Skin protection

According to EC-Regulation 2015/830

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

**Hand protection**

Nitrile rubber  
Can be reused after cleaning

**Eye protection**

Wear safety glasses with side shields.

**SECTION 9: Physical and chemical properties**

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

Form	Liquid
Colour	Haze blue
Odour	Faint
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1.13

**Phase changes**

Melting point (°C)	-18
Boiling point (°C)	56
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

**Data on fire and explosion hazards**

Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	3 - 15
Explosive properties	No data available.

**Solubility**

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

**9.2. Other information**

Solubility in fat (g/L)	No data available.
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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

The product is stable under the conditions, noted in the section "Handling and storage".

**10.3. Possibility of hazardous reactions**

Nothing special

**10.4. Conditions to avoid**

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Substance: ethanediol ethylene glycol  
Species: Rabbit  
Test: LD50  
Route of exposure: Dermal  
Result: >3500 mg/kg

Substance: ethanediol ethylene glycol  
Species: Rat  
Test: LD50

According to EC-Regulation 2015/830

Route of exposure: Oral  
Result: >2000 mg/kg

Substance: ethanediol ethylene glycol  
Species: Mouse  
Test: LC50  
Route of exposure: Inhalation  
Result: >2,5 mg/l 6h

**Skin corrosion/irritation**

No data available.

**Serious eye damage/irritation**

No data available.

**Respiratory or skin sensitisation**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

Data on substance: ethanediol ethylene glycol  
Test: OECD 452  
Duration of Exposure: 12 month  
Organism: Rat  
Target organ: Kidney  
Result: 300 mg/kg bw/d

**Aspiration hazard**

No data available.

**Long term effects**

This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: headache, dizziness, ringing in ears, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance: ethanediol ethylene glycol  
Species: Daphnia  
Test: NOEC  
Duration: 7d  
Result: 8590 mg/l

Substance: ethanediol ethylene glycol  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 13900-57600 mg/l

Substance: ethanediol ethylene glycol  
Species: Fish  
Test: NOEC  
Duration: 7d  
Result: 15380 mg/l

Substance: ethanediol ethylene glycol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 72860 mg/l

Substance: ethanediol ethylene glycol  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 6500-13000 ml/l

**12.2. Persistence and degradability**

**Substance**

ethanediol ethylene glycol

**Biodegradability**

Yes

**Test**

DOC Die-Away Test

**Result**

90%

According to EC-Regulation 2015/830

### 12.3. Bioaccumulative potential

Substance

ethanediol ethylene glycol

Potential bioaccumulation

No

LogPow

-1.36

BCF

No data available

### 12.4. Mobility in soil

ethanediol ethylene glycol : Log Koc= 1 (High mobility potential.).

### 12.5. Results of PBT and vPvB assessment

This substance is not considered to meet the criteria classifying it as PBT and/or vPvB.

### 12.6. Other adverse effects

Nothing special

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

#### Waste

EWC code

-

#### Specific labelling

Not applicable

#### Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

#### ADR/RID

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

Notes -

Tunnel restriction code -

#### IMDG

UN-no. -

Proper Shipping Name -

Class -

PG\* -

EmS -

MP\*\* -

Hazardous constituent -

#### IATA/ICAO

UN-no. -

Proper Shipping Name -

Class -

PG\* -

### 14.5. Environmental hazards

-

### 14.6. Special precautions for user

-

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

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

#### Demands for specific education



According to EC-Regulation 2015/830

-

**Additional information**

Not applicable

**Seveso**

-

**Biocidal reg. no.**

Not applicable

**Sources**

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

**15.2. Chemical safety assessment**

No

**SECTION 16: Other information**

**Full text of H-phrases as mentioned in section 3**

H302 - Harmful if swallowed.

H373 - May cause damage to organs through prolonged or repeated exposure<sup>a</sup>.

**The full text of identified uses as mentioned in section 1**

-

**Additional label elements**

Not applicable

**Other**

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

**The safety data sheet is validated by**

David Löwenstein

**Date of last essential change  
(First cipher in SDS version)**

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**Date of last minor change  
(Last cipher in SDS version)**

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