

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Graffiti Remover Shadow

**Product no.**

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**REACH registration number**

Not applicable

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

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

Graffiti Removal

**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**

2020-10-26

**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

Skin Corr. 1A; H314

Eye Dam. 1; H318

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)****Signal word**

Danger

**Hazard statement(s)**

Harmful if swallowed. (H302)

Causes severe skin burns and eye damage. (H314)

According to EC-Regulation 2015/830

### Precautionary statements

<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).
<b>Response</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (P303+P361+P353).
<b>Storage</b>	Store locked up. (P405).
<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

potassium hydroxide; 2-butoxyethanol; 2-aminoethanol

### Additional labelling

Not applicable

### Unique formula identifier (UFI)

QA5Q-Q0UQ-E10C-XWV0

### 2.3. Other hazards

Not applicable

### Additional warnings

Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.

### VOC (volatile organic compound)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1/3.2. Substances/Mixtures

NAME:	2-(2-ethoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 111-90-0 EC-no: 203-919-7 REACH-no: 01-2119475105-42
CONTENT:	40-60%
CLP CLASSIFICATION:	NA
NAME:	potassium hydroxide
IDENTIFICATION NOS.:	CAS-no: 1310-58-3 EC-no: 215-181-3 REACH-no: 01-2119487136-33 Index-no: 019-002-00-8
CONTENT:	15 - <25%
CLP CLASSIFICATION:	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A H290, H302, H314
NAME:	2,2',2''-nitrilotriethanol
IDENTIFICATION NOS.:	CAS-no: 102-71-6 EC-no: 203-049-8 REACH-no: 01-2119486482-31
CONTENT:	10 - <15%
CLP CLASSIFICATION:	NA
NOTE:	O
NAME:	2-butoxyethanol
IDENTIFICATION NOS.:	CAS-no: 111-76-2 EC-no: 203-905-0 REACH-no: 01-2119475108-36 Index-no: 603-014-00-0
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2 H302, H312, H315, H319, H332
NOTE:	O L
NAME:	2-aminoethanol
IDENTIFICATION NOS.:	CAS-no: 141-43-5 EC-no: 205-483-3 REACH-no: 01-2119486455-28 Index-no: 603-030-00-8
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Acute Tox. 4, STOT SE 3, Skin Corr. 1B H302, H312, H314, H332, H335
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(inhale, vapour) > 20  
ATEmix(dermal) > 2000  
ATEmix(oral) = 1366.024 - <= 2000  
Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 2.6576 - 3.9864  
Skin Corr. 1A Sum = Sum(Ci/S(G)CLi) = 2.87712 - 4.31568

Detergent:

According to EC-Regulation 2015/830

## 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

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure 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

IF exposed or concerned: Get immediate medical advice/attention.

#### Information to medics

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: Nitrogen oxides. Carbon oxides. Some metal 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. Avoid inhalation of vapours from spilled material.

### 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

According to EC-Regulation 2015/830

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

Room temperature 18 to 23°C

### 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

2-aminoethanol

Long-term exposure limit (8-hour TWA reference period): 1 ppm | 2,5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 3 ppm | 7.6 mg/m<sup>3</sup>

Comments: Sk (Sk = Can be absorbed through skin. )

2-butoxyethanol

Long-term exposure limit (8-hour TWA reference period): 25 ppm | 123 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 50 ppm | - mg/m<sup>3</sup>

Comments: Sk;BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin. )

potassium hydroxide

Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m<sup>3</sup>

#### DNEL / PNEC

DNEL (2-butoxyethanol): 3.2 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-butoxyethanol): 49 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-butoxyethanol): 38 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-butoxyethanol): 426 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - General population

DNEL (2-butoxyethanol): 123 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (2-butoxyethanol): 98 mg/m<sup>3</sup>, 20 ppm

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-butoxyethanol): 246 mg/m<sup>3</sup>, 50 ppm

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (2-butoxyethanol): 663 mg/m<sup>3</sup>, 135 ppm

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (2-butoxyethanol): 89 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - Workers

According to EC-Regulation 2015/830

DNEL (2-butoxyethanol): 13.4 mg/kg bw/day  
Exposure: Oral  
Duration of Exposure: Short term – Systemic effects - General population

DNEL (2-butoxyethanol): 44.5 mg/kg bw/day  
Exposure: Dermal  
Duration of Exposure: Short term – Systemic effects - General population

DNEL (potassium hydroxide): 1mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - Workers

DNEL (potassium hydroxide): 1mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - General population

DNEL (2-(2-ethoxyethoxy)ethanol): 50 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-ethoxyethoxy)ethanol): 37 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-ethoxyethoxy)ethanol): 18 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - Workers

DNEL (2-(2-ethoxyethoxy)ethanol): 25 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-ethoxyethoxy)ethanol): 18.3 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-ethoxyethoxy)ethanol): 25 mg/kg bw/d  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-ethoxyethoxy)ethanol): 9 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - General population

DNEL (2-aminoethanol): 1 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-aminoethanol): 3.3 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-aminoethanol): 3.3 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - Workers

DNEL (2-aminoethanol): 0.24 mg/kg bw/d  
Exposure: Dermal  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-aminoethanol): 2 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-aminoethanol): 2 mg/m<sup>3</sup>  
Exposure: Inhalation  
Duration of Exposure: Long term – Local effects - General population

DNEL (2-aminoethanol): 3.75 mg/kg bw/d  
Exposure: Oral  
Duration of Exposure: Long term – Systemic effects - General population

According to EC-Regulation 2015/830

PNEC (2-butoxyethanol): 8.8 mg/l  
Exposure: Freshwater

PNEC (2-butoxyethanol): 0.88 mg/l  
Exposure: Marine water

PNEC (2-butoxyethanol): 463 mg/l  
Exposure: Sewage Treatment Plant

PNEC (2-butoxyethanol): 34.6 mg/kg dw  
Exposure: Freshwater sediment

PNEC (2-butoxyethanol): 3.46 mg/kg dw  
Exposure: Marine water sediment

PNEC (2-butoxyethanol): 2.8 mg/kg dw  
Exposure: Soil

PNEC (2-butoxyethanol): 9.1 mg/l  
Exposure: Intermittent release

PNEC (2-(2-ethoxyethoxy)ethanol): 0.74 mg/l  
Exposure: Freshwater

PNEC (2-(2-ethoxyethoxy)ethanol): 0.074 mg/l  
Exposure: Marine water

PNEC (2-(2-ethoxyethoxy)ethanol): 10 mg/l  
Exposure: Intermittent release

PNEC (2-(2-ethoxyethoxy)ethanol): 500 mg/l  
Exposure: Sewage Treatment Plant

PNEC (2-(2-ethoxyethoxy)ethanol): 2.47 mg/kg dw  
Exposure: Freshwater sediment

PNEC (2-(2-ethoxyethoxy)ethanol): 0.247mg/kg dw  
Exposure: Marine water sediment

PNEC (2-(2-ethoxyethoxy)ethanol): 0.15 mg/kg dw  
Exposure: Soil

PNEC (2-aminoethanol): 0.085 mg/l  
Exposure: Freshwater

PNEC (2-aminoethanol): 0.0085 mg/l  
Exposure: Marine water

PNEC (2-aminoethanol): 0.434 mg/kg dw  
Exposure: Freshwater sediment

PNEC (2-aminoethanol): 0.0434 mg/kg dw  
Exposure: Marine water sediment

PNEC (2-aminoethanol): 1.29 mg/kg dw  
Exposure: Soil

PNEC (2-aminoethanol): 100 mg/l  
Exposure: Sewage Treatment Plant

PNEC (2-aminoethanol): 0.028 mg/l  
Exposure: Intermittent release

## 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.

According to EC-Regulation 2015/830

#### 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

In case of spray application: Use mask with particle filter S/SL

#### Skin protection

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

#### Hand protection

Butyl rubber

Breakthrough time: > 480 minutes (Class 6)

#### 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	Tan
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	14
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1.1

#### Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
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)	No data available.
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

According to EC-Regulation 2015/830

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**

Nothing special

**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: 2-aminoethanol

Species: Rat

Test: LD50

Route of exposure: Dermal

Result: 2504 mg/kg

Substance: 2-aminoethanol

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 1089 mg/kg

Substance: 2-aminoethanol

Species: Rat

Test: LD50

Route of exposure: Inhalation

Result: 1478 mg/m<sup>3</sup>

Substance: 2-butoxyethanol

Species: Guinea pig

Test: LD0

Route of exposure: Dermal

Result: >2000 mg/kg

Substance: 2-butoxyethanol

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 1300 mg/kg

Substance: 2-butoxyethanol

Species: Guinea pig

Test: LD50

Route of exposure: Oral

Result: 1414 mg/kg

Substance: 2-butoxyethanol

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: 2.56 mg/l/4h

Substance: 2,2',2''-nitrotriethanol

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: >2000mg/kg

Substance: 2,2',2''-nitrotriethanol

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 6400mg/kg

Substance: potassium hydroxide

Species: Rat

Test: LD50



According to EC-Regulation 2015/830

Route of exposure: Oral  
Result: 333.0

Substance: 2-(2-ethoxyethoxy)ethanol  
Species: Rabbit  
Test: LD50  
Route of exposure: Dermal  
Result: 9143 mg/kg

Substance: 2-(2-ethoxyethoxy)ethanol  
Species: Mouse  
Test: LD50  
Route of exposure: Oral  
Result: 6031 mg/kg

Substance: 2-(2-ethoxyethoxy)ethanol  
Species: Rat  
Test: LC0  
Route of exposure: Inhalation  
Result: 25 mg/m<sup>3</sup>

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

Data on substance: 2-aminoethanol

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Long term effects**

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Substance: 2-aminoethanol  
Species: Daphnia  
Test: NOEC  
Duration: 21d  
Result: 0.85 mg/l

Substance: 2-aminoethanol  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 65 mg/l

Substance: 2-aminoethanol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 349 mg/l

Substance: 2-aminoethanol  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 2.5 mg/l

Substance: 2-butoxyethanol  
Species: Daphnia

According to EC-Regulation 2015/830

Test: NOEC  
Duration: 21d  
Result: 100 mg/l

Substance: 2-butoxyethanol  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 1550 mg/l

Substance: 2-butoxyethanol  
Species: Fish  
Test: NOEC  
Duration: 21d  
Result: 100 mg/l

Substance: 2-butoxyethanol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 1474 mg/l

Substance: 2-butoxyethanol  
Species: Algae  
Test: EC50  
Duration: 72h  
Result: 1840 mg/l

Substance: 2,2',2''-nitrioltriethanol  
Species: Daphnia  
Test: NOEC  
Duration: 21d  
Result: 16mg/l

Substance: 2,2',2''-nitrioltriethanol  
Species: Daphnia  
Test: EC50  
Duration: 24h  
Result: 1390mg/l

Substance: 2,2',2''-nitrioltriethanol  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: >2500mg/l

Substance: 2,2',2''-nitrioltriethanol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 450-1000mg/l

Substance: 2,2',2''-nitrioltriethanol  
Species: Algae  
Test: IC50  
Duration: 72h  
Result: 216mg/l

Substance: potassium hydroxide  
Species: Daphnia  
Test: EC50  
Duration: 48h  
Result: 40-240mg/l

Substance: potassium hydroxide  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 80mg/l

Substance: 2-(2-ethoxyethoxy)ethanol  
Species: Daphnia  
Test: LC50

According to EC-Regulation 2015/830

Duration: 48h  
Result: 1982 mg/l

Substance: 2-(2-ethoxyethoxy)ethanol  
Species: Fish  
Test: LC50  
Duration: 96h  
Result: 6010 mg/l

Substance: 2-(2-ethoxyethoxy)ethanol  
Species: Algae  
Test: EC50  
Duration: 96h  
Result: >100 mg/l

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-aminoethanol	Yes	DOC Die-Away Test	>90%
2-butoxyethanol	Yes	CO2 Evolution Test	90,4
2,2',2''-nitrilotriethanol	Yes	DOC Die-Away Test	97%
2-(2-ethoxyethoxy)ethanol	Yes	CO2 Evolution Test	79.4%

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
2-aminoethanol	No	-1.91	No data available
2-butoxyethanol	No	0.81	No data available
2,2',2''-nitrilotriethanol	No	-2.3	No data available
2-(2-ethoxyethoxy)ethanol	No	-0.54	3

### 12.4. Mobility in soil

2-aminoethanol: Log Koc= -1.434129, Calculated from LogPow ( ).  
2-butoxyethanol: Log Koc= 0.719839, Calculated from LogPow (High mobility potential.).  
2,2',2''-nitrilotriethanol: Log Koc= -1.74297, Calculated from LogPow (High mobility potential.).  
2-(2-ethoxyethoxy)ethanol: Log Koc= -0.349226, Calculated from LogPow (High mobility potential.).

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them 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

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#### Specific labelling

Not applicable

#### Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

#### ADR/RID

14.1. UN number	1814
14.2. UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es)	8
14.4. Packing group	II
Notes	-
Tunnel restriction code	E

#### IMDG

UN-no.	1814
Proper Shipping Name	POTASSIUM HYDROXIDE SOLUTION
Class	8
PG*	II
EmS	F-A, S-B
MP**	-
Hazardous constituent	-

According to EC-Regulation 2015/830

<b>IATA/CAO</b>	
<b>UN-no.</b>	1814
<b>Proper Shipping Name</b>	POTASSIUM HYDROXIDE SOLUTION
<b>Class</b>	8
<b>PG*</b>	II

**14.5. Environmental hazards**

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**14.6. Special precautions for user**

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**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**

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**Additional information**

The surfactant(s) contained in this preparation complies(comply) 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.

**Seveso**

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**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 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

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**

H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

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

According to EC-Regulation 2015/830

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**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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