



## 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1</b>	<b>Product identifiers</b>	DP 1017B
	<b>Trade Name or designation</b>	BioFoam E
<b>1.2</b>	<b>Identification of Uses</b>	Cleaner
	<b>Uses advised against</b>	No specific uses are advised against
<b>1.3</b>	<b>Supplier</b>	Biolink Limited. Halifax Way Pocklington Ind. Est Pocklington York YO42 1NR
	<b>Telephone No.</b>	+44 (0) 1759 303444
	<b>Fax No.</b>	+44 (0) 1759 303158
	<b>Email</b>	<a href="mailto:info@biolinklimited.co.uk">info@biolinklimited.co.uk</a>
<b>1.4</b>	<b>Emergency Phone</b>	+44 (0) 1280 738605 (office hours only)

## 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EEC as amended

Xi, R38, R41, R52/53

#### Classification in accordance to EC 1272/2008 as amended

##### PHYSICAL HAZARDS

Not Classified

##### HEALTH HAZARDS

Skin Irritant	Category 2	H315 Causes Skin irritation
Eye Damage	Category 1	H318 Causes serious eye damage

##### ENVIRONMENTAL HAZARDS

Aquatic Chronic Toxicity	Category 3	H412 Harmful to aquatic life with long lasting effects
--------------------------	------------	--

##### Hazard summary

##### Physical hazards

Not Classified

##### Health hazards

Causes skin irritation. Causes serious eye damage.

##### Environmental hazards

Harmful to aquatic life with long lasting effects

##### Specific hazards

Not known

##### Main symptoms

May cause irritation to the skin. Symptoms may include redness, discomfort, and rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

1.2 Label elements

Label in accordance with EC 1272/2008 as amended

**Contains** SODIUM HYDROXIDE, ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS

**Hazard pictograms**



**Signal word** Danger

**Hazard statements**

H315 Causes Skin irritation  
 H318 Causes serious eye damage  
 H412 Harmful to aquatic life with long lasting effects

**Precautionary statements**

**Prevention**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P264 Wash hands and skin thoroughly after handling

**Response**

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P302+ 352 IF ON SKIN: Wash with plenty of soap and water  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P332+313 If skin irritation or rash occurs: Get medical advice/ attention

**Storage**

N/A

**Disposal**

N/A

**Supplemental label information**

N/A

1.3 Other hazards

Not known

3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS			10 – 20%
CAS-No.: 68891-38-3	EC No.: 500-234-8	EC Index No.:	Reach No.: 01-2119488639-16
Classification (67/548/EEC) Xi, R38; R41		Classification (EC 1272/2008) Eye Dam. 1 – H318 Skin Irrit. 2 – H315 Aquatic Chronic 3 – H412	

ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)		1 – 5%	
CAS-No.: 164462-16-2	EC No.: 423-270-5	EC Index No.:	Reach No.: 01-0000016977-53
Classification (67/548/EEC) Not classified		Classification (EC 1272/2008) Met corr. 1 – H290	

2-BUTOXYETHANOL		1-5%	
CAS-No.: 111-76-2	EC No.: 203-905-0	EC Index No.: 603-014-00-0	Reach No.: 01-2119475108-36
Classification (67/548/EEC) Xn, Xi, R20/21/22, R36/38		Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

SODIUM HYDROXIDE		<2%	
CAS-No.: 1310-73-2	EC No.: 215-185-5	EC Index No.: 011-002-00-6	Reach No.: 01-2119457892-27
Classification (67/548/EEC) C, R35		Classification (EC 1272/2008) Skin Corr. 1A – H314 Met.Corr. 1A - H290	

SODIUM XYLENESULPHONATE		0-1%	
CAS-No.: 1300-72-7	EC No.: 215-090-9	EC Index No.:	Reach No.: 01-2119513350-56
Classification (67/548/EEC) Xi, R36		Classification (EC 1272/2008) Eye Irrit. 2 - H319	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**4 - FIRST AID MEASURES**

**General Information**

First aiders should wear suitable protective clothing.

**4.1 Description of first aid measures**

**Inhalation**

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

**Ingestion**

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

**Skin contact**

Remove contaminated clothing. Wash off with plenty of water. Consult a doctor if symptoms persist.

**Eye contact**

Remove contaminated clothing. Wash off with plenty of water. Consult a physician if symptoms persist.

- 4.2 Most important symptoms and effects, both acute and delayed**  
Irritation and discomfort. Corrosive damage to the eyes.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
Rinse eye immediately with sterile saline solution.  
Seek medical attention in case of ingestion, inhalation or contact with eyes.

## 5 - FIRE FIGHTING MEASURES

### General Fire Hazards

- 5.1. Extinguishing media**  
SUITABLE EXTINGUISHING MEDIA  
Water spray, Dry powder, foam.  
UNSUITABLE EXTINGUISHING MEDIA  
None
- 5.2. Special hazards arising from the substance or mixture**  
UNUSUAL FIRE & EXPLOSION HAZARDS  
In case of fire toxic gases may be released. (CO<sub>x</sub>, NO<sub>x</sub>, HCl).  
SPECIFIC HAZARDS  
None noted.
- 5.3. Advice for fire-fighters**  
SPECIAL FIRE FIGHTING PROCEDURES  
Collect fire extinguishing water separately, do not allow to enter drains. Exceptionally large spillages should be notified to the appropriate authorities.  
PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS  
Wear self-contained breathing apparatus.

## 6 - ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures**  
Keep unnecessary people away. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
- 6.2. Environmental precautions**  
Do not let product enter drains. Discharge into the environment must be avoided. Appropriate authorities should be notified in case of contamination of sewerage or surface water.
- 6.3. Methods and material for containment and cleaning up**  
Prevent further leakage or spillage if safe to do so. If possible contain the spillage with adsorbent material, place in a suitable container and dispose of as described in section 13 of this safety data sheet.
- 6.4. Reference to other sections**  
Personal protection –section 8.  
Disposal considerations –Section 13.

## 7 - HANDLING AND STORAGE

- 7.1 Precautions for safe handling**  
Ensure good ventilation when using this product, avoid inhalation of vapours and spray. Handle with care and avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Follow instructions and ensure correct dilution of this product before use.

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

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

**7.3 Specific end use(s)**

Cleaner

**8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

Component	CAS-No.	Value	Control Parameters	Basis
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m <sup>3</sup> Inhalable aerosol	Austrian OEL Regulation
SODIUM HYDROXIDE	1310-73-2	STEL	4 mg/m <sup>3</sup> Inhalable aerosol	Austrian OEL Regulation
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m <sup>3</sup>	Belgium VLEP/GWBB
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m <sup>3</sup>	Denmark
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m <sup>3</sup>	Denmark
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m <sup>3</sup>	France INRS
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m <sup>3</sup>	Hungary Decree No. 25/2000 (IX.30)
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m <sup>3</sup>	Hungary Decree No. 25/2000 (IX.30)
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m <sup>3</sup>	Ireland
SODIUM HYDROXIDE	1310-73-2	TWA	0.5 mg/m <sup>3</sup>	Latvia
SODIUM HYDROXIDE	1310-73-2	TWA	0.5 mg/m <sup>3</sup>	Poland - NDS
SODIUM HYDROXIDE	1310-73-2	STEL	1 mg/m <sup>3</sup>	Poland - NDS
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m <sup>3</sup>	Spain - Royal Decree 374/2001
SODIUM HYDROXIDE	1310-73-2	TWA	1 mg/m <sup>3</sup>	Sweden
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m <sup>3</sup>	Sweden
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m <sup>3</sup> Inhalable aerosol	Switzerland
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m <sup>3</sup> Inhalable aerosol	Switzerland
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m <sup>3</sup>	UK - EH40 WEL

**Biological limit values**

**Recommended monitoring procedures**

Follow standard monitoring procedures.

**Derived no-effect level (DNEL)**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS

Route	Use	Effect	Time	Value
Dermal	Worker	Systemic	Long Term	2750 mg/kg
Inhalation	Worker	Systemic	Long Term	175 mg/m <sup>3</sup>
Oral	Consumer	Systemic	Long Term	15 mg/kg/bw
Dermal	Consumer	Systemic	Long Term	1650 mg/kg
Inhalation	Consumer	Systemic	Long Term	52 mg/m <sup>3</sup>

**2-BUTOXYETHANOL**

Route	Use	Effect	Time	Value
Dermal	Worker	Acute	1d	89 mg/kg
Inhalation	Worker	Acute		663 mg/kg
Inhalation	Workers	Local		246 mg/m <sup>3</sup>
Dermal	Workers	Chronic	1d	75 mg/kg
Inhalation	Workers	Chronic		98mg/m <sup>3</sup>
Dermal	Consumers	Acute	1d	44.5 mg/kg
Inhalation	Consumers	Acute		426 mg/m <sup>3</sup>
Ingestion	Consumers	Acute	1d	13.4 mg/kg
Inhalation	Consumers	Local		123 mg/m <sup>3</sup>
Dermal	Consumers	Chronic	1d	38 mg/kg

Inhalation	Consumers	Chronic		49mg/m <sup>3</sup>
Ingestion	Consumers	Chronic	1d	3.2 mg/kg

SODIUM HYDROXIDE

Route	Use	Effect	Time	Value
Inhalation	Worker	Local	Long Term	1.0 mg/m <sup>3</sup>
Dermal	worker	Local	Short Term	2 %
Inhalation	Consumer	Local	Long Term	1.0 mg/m <sup>3</sup>
Dermal	Consumer	Local	Short Term	2 %

SODIUM XYLENESULPHONATE

Route	Use	Effect	Time	Value
Dermal	Worker	Systemic	Long Term	7.6 mg/kg/day
Inhalation	Worker	Systemic	Long Term	53.6 mg/m <sup>3</sup> 8h
Oral	Consumer	Systemic	Long Term	3.8 mg/kg/day
Dermal	Consumer	Systemic	Long Term	3.8 mg/kg/day
Inhalation	Consumer	Systemic	Long Term	13.2 mg/m <sup>3</sup>

**Predicted no effect concentrations (PNECs)**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS

Route	Value
Freshwater	0.24 mg/l
Freshwater sediment	5.45 mg/kg (DW)
Intermittent release	0.071 mg/l
Marine sediment	0.545 mg/kg (DW)
Marine water	0.024 mg/l
STP	10,000 mg/l
Soil	0.946 mg/kg (DW)

2-BUTOXYETHANOL

Route	Use	Effect	Time	Value
Dermal	Worker	Acute	1d	89 mg/kg
Inhalation	Worker	Acute		663 mg/kg
Inhalation	Workers	Local		246 mg/m <sup>3</sup>
Dermal	Workers	Chronic	1d	75 mg/kg
Inhalation	Workers	Chronic		98mg/m <sup>3</sup>
Dermal	Consumers	Acute	1d	44.5 mg/kg
Inhalation	Consumers	Acute		426 mg/m <sup>3</sup>
Ingestion	Consumers	Acute	1d	13.4 mg/kg
Inhalation	Consumers	Local		123 mg/m <sup>3</sup>
Dermal	Consumers	Chronic	1d	38 mg/kg
Inhalation	Consumers	Chronic		49mg/m <sup>3</sup>
Ingestion	Consumers	Chronic	1d	3.2 mg/kg

SODIUM HYDROXIDE

Route	Use	Effect	Time	Value
Inhalation	Worker	Local	Long Term	1.0 mg/m <sup>3</sup>
Dermal	worker	Local	Short Term	2 %
Inhalation	Consumer	Local	Long Term	1.0 mg/m <sup>3</sup>
Dermal	Consumer	Local	Short Term	2 %

SODIUM XYLENESULPHONATE

Route	Use	Effect	Time	Value
Dermal	Worker	Systemic	Long Term	7.6 mg/kg/day
Inhalation	Worker	Systemic	Long Term	53.6 mg/m <sup>3</sup> 8h
Oral	Consumer	Systemic	Long Term	3.8 mg/kg/day
Dermal	Consumer	Systemic	Long Term	3.8 mg/kg/day
Inhalation	Consumer	Systemic	Long Term	13.2 mg/m <sup>3</sup>

## 8.2 Exposure controls

**Appropriate Engineering controls**

No specific engineering measures are noted except that this product should be used in a well ventilated area.

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

In case of splashing wear suitable protective equipment.

**General information**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

**Respiratory equipment**

Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator.

**Hand protection**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

## Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.6 mm

Break through time: >480 min

## Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.2 mm

Break through time: >35 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Eye protection**

In case of splashing, wear safety goggles or face shield.

**Other protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke

**Environmental exposure controls**

Do not discharge into the watercourse or drains

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance

Physical State:

Liquid

Form:

Solution

Colour:	Colourless
Odour:	Faint odour
pH	13.0 approx.
BP/BP Range	>100°C
MP/MP Range	<0°C
SG/Density:	1.0 – 1.1 g/ml (1.02 typical)
Solubility	Completely miscible in water

**9.2. Other information**  
Not known

**10 - STABILITY AND REACTIVITY**

- 10.1 Reactivity**  
Not expected under normal conditions of use
- 10.2 Chemical stability**  
Stable under normal temperature conditions
- 10.3 Possibility of hazardous reactions**  
Not expected under normal conditions of use  
Sodium hydroxide: Contact with some metals e.g. aluminium, zinc, tin, alloys can produce flammable hydrogen gas. Contact with some organic chemicals can produce violent or explosive reactions.
- 10.4 Conditions to avoid**  
Avoid exposure to high temperatures or direct sunlight. Acids and chlorinated hydrocarbons
- 10.5 Incompatible materials**  
Materials to avoid -strong acids or alkalis. Oxidising agents. Chlorinated hydrocarbons
- 10.6 Hazardous decomposition products**  
None, see section 5 for decomposition products under fire conditions

**11 - TOXICOLOGICAL INFORMATION**

**General information**

**Information on likely routes of exposure**

**Inhalation**

Inhalation of vapours/aerosols can lead to irritation of the respiratory tract and cause inflammation of the respiratory tract and pulmonary oedema. Symptoms may occur with delay

**Skin contact**

With increasing contact length, local erythema or extreme irritation (whitening)

**Eye contact**

Extreme irritation up to cauterisation. Can cause severe conjunctivitis, cornea damage or irreversible eye damage. Symptoms may occur with delay

**Ingestion**

Swallowing can lead to bleeding of the mucosa of the mouth, oesophagus and stomach. The rapid release of oxygen can cause distension and bleeding of the mucosa in the stomach and lead to severe damage of the internal organs, especially in the event of greater intake of the product

**Symptoms**

May cause irritation to the skin. Symptoms may include redness, discomfort, and rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.



**11.1 Information on toxicological effects**

**Acute toxicity**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS	Oral	LD50	> 2000-5000 mg/kg (Rat)
	Dermal	LD50	> 2000 mg/kg (Rat)
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)	Oral	LD50	>4000 mg/kg
	Inhalation	LC50 4h	>5mg/l
	Dermal	LD50	>4000 mg/kg
2-BUTOXYETHANOL	Oral	LD50	>300-2000 mg/kg (Rat)
	Dermal	LD50	>1000-2000 mg/kg (Rat)
SODIUM XYLENESULPHONATE	Oral	LD50	7200 mg/kg
	Dermal	LD50	2000 mg/kg

**Skin corrosion/irritation**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS	OECD 404	Irritant
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)	OECD 404	Not irritating
2-BUTOXYETHANOL	Rabbit	Not irritating

**Serious eye damage/eye irritation**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS	OECD 405	Irritating (Rabbit)
	≥5-10 %	Causes serious eye damage
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)	OECD 405	Not irritating
2-BUTOXYETHANOL	Rabbit	Highly irritating

**Respiratory sensitisation**

Based on the available data not classified as a respiratory sensitiser

**Skin sensitisation**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS	OECD 406	Not sensitising (Guinea pig)
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)	OECD 406	Not sensitising

**Germ cell mutagenicity**

ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)	OECD 471	Negative
	HGPRT assay	Negative
	Micronucleus assay	Negative
2-BUTOXYETHANOL	Ames Test	Negative ( <i>S. typhimurium</i> )

**Carcinogenicity**

Based on the available data not classified as a carcinogen

**IARC Monographs. Overall Evaluation of Carcinogenicity**

2-BUTOXYETHANOL	Group 3
-----------------	---------

**Reproductive toxicity**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS	OECD 416 NOAEL	>300 mg/kg (Parents and F1) 2 generation
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)	OECD 421/422	Negative
Developmental toxicity	NOAEL	>2000 mg/kg Oral (Rat)

**Specific target organ toxicity - single exposure**

Based on the available data not classified as a STOT SE.

**Specific target organ toxicity - repeated exposure**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS	OECD 408, NOAEL 90 d Liver	>225 mg/kg/bw/d Oral (Rat)
--	----------------------------	----------------------------

ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)

May cause damage to the kidney after repeated ingestion of high doses-animal studies

OECD 453                      NOAEL                      530 mg/kg Oral (Rat)

**Aspiration hazard**

Based on the available data not classified as an aspiration hazard

**Mixture versus substance information**

No data available

**Other information**

Not known

**12 - ECOLOGICAL INFORMATION**

**12.1 Toxicity**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS

Toxicity to fish	LC50	>1-10mg/l <i>Brachydario rerio</i>
	NOEC	1.2 mg/l QSAR
Toxicity to aquatic invertebrates	EC50 48 h	>1-10 mg/l <i>Daphnia magna</i>
	NOEC 21d	>0.1-1 mg/l <i>Daphnia magna</i>
Toxicity to Algae	EC50 72 h	>10-100 mg/l <i>D. subspicatus</i>
Toxicity to Bacteria	EC10	>10,000 mg/l <i>Pseudomonas putida</i>

ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)

Toxicity to fish	LC50 96 h	>200 mg/l <i>Brachydanio rerio</i>
	NOEC 28d	≥ 200 mg/l <i>Oncorhynchus mykiss</i>
Toxicity to aquatic invertebrates	EC50 48 h	>200 mg/l <i>Daphnia magna</i>
	NOEC 21d	≥ 200 mg/l <i>Daphnia magna</i>
Toxicity to Algae	EC50 72 h	>200 mg/l <i>Scenedesmus subspicatus</i>
Toxicity to Bacteria	EC20 0.5h	> 2000mg/l activated sludge

2-BUTOXYETHANOL

Toxicity to fish	LC50 96 h	>100 mg/l <i>Lepomis machrochirus</i>
Toxicity to aquatic invertebrates	EC50 24 h	>100 mg/l <i>Daphnia magna</i>
Toxicity to Algae	EC50 7d	>100 mg/l <i>Desmodesmus subspicatus</i>

SODIUM XYLENESULPHONATE

Toxicity to fish	LC50	1000 mg/l
Toxicity to aquatic invertebrates	EC50	1000 mg/l
Toxicity to Algae	EC50	230 mg/l

**12.2 Persistence and degradability**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS

		Readily Biodegradable
	OECD301 A 28d	70-80%

ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)

		Readily biodegradable
	OECD 301 F 28 d	80-90% BOD or the ThOD
	OECD 311 60 d	80-90% TIC of the ThIC

2-BUTOXYETHANOL

	OECD 301 E 28 d	Readily biodegradable
		>70% Activated sludge

SODIUM XYLENESULPHONATE

The product is readily biodegradable

**12.3 Bioaccumulative potential**

No data available

**Partition coefficient n-octanol/water (log Kow)**

ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)

LogKow	-4.0
--------	------

**12.4 Mobility in soil**

ALCOHOLS, C12-14, ETHOXYLATED, SULPHATED, SODIUM SALTS

Adsorption/Soil Koc	191 (Calculated)
---------------------	------------------

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

No data available

**13 - DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements

**Residual waste**

Dispose of waste and residues in accordance with local authority requirements

**Contaminated packaging**

Dispose of as unused product.

**EU Waste Code**

02-01-09

**Disposal methods/information**

Wear protective equipment as outlined in section 8 of this safety data sheet when handling this product contaminated materials and packaging.

**Special precautions**

Not noted.

**14 - TRANSPORT INFORMATION**

## Road Transport Notes

**14.1 UN-number**

ADR/RID: N/A

IMDG: N/A

IATA: N/A

**14.2 UN proper shipping name**

ADR/RID: N/A

IMDG: N/A

IATA: N/A

**14.3 Transport hazard class (es)**

ADR/RID: N/A

IMDG: N/A

IATA: N/A

**14.4 Packaging group**

ADR/RID: N/A

IMDG: N/A

IATA: N/A

**14.5 Environmental hazards**

IMDG: Marine pollutant: No

**14.6 Special precautions for users**

N/A

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N/A

**Further information**

N/A

**15 - REGULATORY INFORMATION**

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

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**15.2 Chemical Safety Assessment**

**National regulations** Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**16 - OTHER INFORMATION****List of abbreviations**

CO Carbon Monoxide  
NO Nitrogen Oxide  
HCL Hydrochloric acid  
TWA Time weighted average  
STEL Short Term exposure limit  
DW Dry weight

**References****Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

Xi Irritant  
Xn Harmful  
C Corrosive  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed  
R35 Causes severe burns  
R36 Irritating to eyes  
R36/38 Irritating to eyes and skin  
R38 Irritating to skin  
R41 Risk of serious damage to eyes  
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  
H318 Causes serious eye damage  
H319 Causes serious eye irritation  
H332 Harmful if inhaled  
H412 Harmful to aquatic life with long lasting effects  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash hands and skin thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P302+ 352 IF ON SKIN: Wash with plenty of soap and water

P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+313 If skin irritation or rash occurs: Get medical advice/ attention

**Training information** Follow training instructions when handling this material.

**Disclaimer**

Biolink cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. The information in the sheet was written based on the best knowledge and experience currently available.