



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

1.1	Product identifiers Trade Name or designation	DP2127 BioBacto
1.2	Identification of Uses Uses advised against	Food area multipurpose cleaner sanitizer No specific uses are advised against
1.3	Supplier Telephone No. Fax No. Email	Biolink Limited. Halifax Way Pocklington Ind. Est Pocklington York YO42 1NR +44 (0) 1759 303444 +44 (0) 1759 303158 info@biolinklimited.co.uk
1.4	Emergency Phone	+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
C, N, R34, R50

Classification in accordance to EC 1272/2008 as amended

PHYSICAL HAZARDS

Not Classified

HEALTH HAZARDS

Skin Corrosive	Category 1B	H314 Causes severe skin burns and eye damage
Eye Damage	Category 1	H318 Causes serious eye damage
Specific Target Organ Toxicity Short Term	Category 3	H335 May cause respiratory irritation

ENVIRONMENTAL HAZARDS

Aquatic Acute Toxicity	Category 1	H410 Very toxic to aquatic life with long lasting effects
Aquatic Chronic Toxicity	Category 1	H411 Toxic to aquatic life with long lasting effects

Hazard summary

Physical hazards

Not Classified

Health hazards

Causes severe skin burns and eye damage. May cause respiratory irritation

Environmental hazards

Very toxic to aquatic life with long lasting effects

Specific hazards

Not applicable

Main symptoms

Burning pain and severe corrosive skin damage. Rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Symptoms may include difficulty breathing, discomfort in chest and upper respiratory tract.

1.2 Label elements**Label in accordance with EC 1272/2008 as amended**

Contains DIDECYLDIMETHYLAMMONIUM CHLORIDE 7%

Hazard pictograms

Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements**Prevention**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/ spray

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;

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin;

Storage

P405 Store Locked up.

Disposal

P501 Dispose of contents/container in accordance with local regulations.

Supplemental label information

Not applicable

1.3 Other hazards

Not known

3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

DIDECYLDIMETHYLAMMONIUM CHLORIDE		7 %	
CAS-No.: 7173-51-5	EC No.: 230-525-2	EC Index No.:	Reach No.:
Classification (67/548/EEC) C, N, R22, R34, R50		Classification (EC 1272/2008) Acute Tox.3 - H301 Skin Corr.1B - H314 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

ETHANOL		< 5 %	
CAS-No.: 64-17-5	EC No.: 200-578-6	EC Index No.:	Reach No.:
Classification (67/548/EEC) F, Xi, R11, R36		Classification (EC 1272/2008) Flam. Liq. 2- H225 Eye Irrit. 2-H319	

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

2-AMINOETHANOL		< 10 %	
CAS-No.: 141-43-5	EC No.: 205-483-3	EC Index No.:	Reach No.:
Classification (67/548/EEC) C, Xn R34, R20/21/22		Classification (EC 1272/2008) Acute Tox. 4- H302 Acute Tox. 4 - H312 Acute Tox.4 – H332 Skin Corr. 1B H314 STOT SE 3 – H335	

POTASSIUM CARBONATE		< 10 %	
CAS-No.: 584-08-7	EC No.: 209-529-3	EC Index No.:	Reach No.:
Classification (67/548/EEC) Xi, R36/37/38		Classification (EC 1272/2008) Skin Irrit. 2 –H315 Eye Irrit. 2-H319 STOT SE 3 –H335	

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

Burning and discomfort. Corrosive damage to the eyes, skin, nose, throat or gastrointestinal tract.

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.

2-Aminoethanol chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/oesophageal control if lavage is done. No specific antidote.

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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_x, NO_x, 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)

Food safe multipurpose cleaner sanitizer

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	CAS-No.	Value	Control Parameters	Basis
ETHANOL	64-17-5	TWA	1000 ppm 1900 mg/m ³	Austrian OEL Regulation
ETHANOL	64-17-5	STEL	2000 ppm 3800 mg/m ³	Austrian OEL Regulation
ETHANOL	64-17-5	TWA	1000 ppm 1907 mg/m ³	Belgium VLEP/GWBB
ETHANOL	64-17-5	TWA	1000 ppm 1900 mg/m ³	Denmark
ETHANOL	64-17-5	STEL	2000 ppm 3800 mg/m ³	Denmark
ETHANOL	64-17-5	TWA	1000 ppm 1900 mg/m ³	France INRS
ETHANOL	64-17-5	STEL	5000 ppm 9500 mg/m ³	France INRS
ETHANOL	64-17-5	TWA	500 ppm 960 mg/m ³	Germany AGS
ETHANOL	64-17-5	STEL	1000 ppm 1920 mg/m ³	Germany AGS
ETHANOL	64-17-5	TWA	500 ppm 960 mg/m ³	Germany DFG
ETHANOL	64-17-5	STEL	1000 ppm 1920 mg/m ³	Germany DFG
ETHANOL	64-17-5	TWA	1900 mg/m ³	Hungary
ETHANOL	64-17-5	STEL	7600 mg/m ³	Hungary
ETHANOL	64-17-5	STEL	1000 ppm	Ireland
ETHANOL	64-17-5	STEL	1000 ppm	Latvia
ETHANOL	64-17-5	TWA	1900 mg/m ³	Poland - NDS
ETHANOL	64-17-5	STEL	1000 ppm 1910 mg/m ³	Spain - Royal Decree 374/2001
ETHANOL	64-17-5	TWA	500 ppm 1000 mg/m ³	Sweden
ETHANOL	64-17-5	STEL	1000 ppm 1900 mg/m ³	Sweden
ETHANOL	64-17-5	TWA	500 ppm 960 mg/m ³	Switzerland
ETHANOL	64-17-5	STEL	1000 ppm 1920 mg/m ³	Switzerland
ETHANOL	64-17-5	TWA	260 mg/m ³	The Netherlands
ETHANOL	64-17-5	STEL	1900 mg/m ³	The Netherlands
ETHANOL	64-17-5	TWA	1000 ppm 1920 mg/m ³	UK - EH40 WEL
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	Austrian OEL Regulation
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	Austrian OEL Regulation
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	Belgium VLEP/GWBB

2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	Belgium VLEP/GWBB
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	Denmark
2-AMINOETHANOL	141-43-5	STEL	2 ppm 5 mg/m ³	Denmark
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	SCOEL
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	SCOEL
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	France INRS
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	France INRS
2-AMINOETHANOL	141-43-5	TWA	2 ppm 5.1 mg/m ³	Germany AGS
2-AMINOETHANOL	141-43-5	STEL	4 ppm 10.2 mg/m ³	Germany AGS
2-AMINOETHANOL	141-43-5	TWA	2 ppm 5.1 mg/m ³	Germany DFG
2-AMINOETHANOL	141-43-5	STEL	4 ppm 10.2 mg/m ³	Germany DFG
2-AMINOETHANOL	141-43-5	TWA	2.5 mg/m ³	Hungary
2-AMINOETHANOL	141-43-5	STEL	7.6 mg/m ³	Hungary
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	Ireland
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	Ireland
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	Italy
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	Italy
2-AMINOETHANOL	141-43-5	TWA	0.2 ppm 0.5 mg/m ³	Latvia
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	Latvia
2-AMINOETHANOL	141-43-5	TWA	2.5 mg/m ³	Poland - NDS
2-AMINOETHANOL	141-43-5	STEL	7.5 mg/m ³	Poland - NDS
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	Spain - Royal Decree 374/2001
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	Spain - Royal Decree 374/2001
2-AMINOETHANOL	141-43-5	TWA	3 ppm 8 mg/m ³	Sweden
2-AMINOETHANOL	141-43-5	STEL	6 ppm 15 mg/m ³	Sweden
2-AMINOETHANOL	141-43-5	TWA	2 ppm 5 mg/m ³	Switzerland
2-AMINOETHANOL	141-43-5	STEL	4 ppm 10 mg/m ³	Switzerland
2-AMINOETHANOL	141-43-5	TWA	2.5 mg/m ³	The Netherlands
2-AMINOETHANOL	141-43-5	STEL	7.6 mg/m ³	The Netherlands
2-AMINOETHANOL	141-43-5	TWA	1 ppm 2.5 mg/m ³	UK - EH40 WEL
2-AMINOETHANOL	141-43-5	STEL	3 ppm 7.6 mg/m ³	UK - EH40 WEL

Biological limit values

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL).

2-AMINOETHANOL

Route	Use	Effect	Time	Value
Inhalation	Worker	Local	Long Term	3.3 mg/m ³
Dermal	Worker	Systemic	Long term	1 mg/kg/bw/day
Inhalation	Consumer	Local	Lon Term	2 mg/m ³
Dermal	Consumer	Systemic	Long Term	0.24 mg/kg/bw/day
Oral	Consumer	Systemic	Long Term	3.75 mg/kg/bw/day

Predicted no effect concentrations (PNECs)

2-AMINOETHANOL

Route	Value
Freshwater	0.085 mg/l
Freshwater sediment	0.425 mg/kg (DW)
Intermittent release	0.025 mg/l
Marine sediment	0.0425 mg/kg (DW)
Marine water	0.0085 mg/l
STP	100 mg/l
Soil	0.035mg/kg (DW)

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:	Slight
pH	12.5 – 13.5 (Undiluted)
BP/BP Range	N/A
MP/MP Range	N/A
Relative Density:	1.0 – 1.1 (1.057 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

10.4 Conditions to avoid

Avoid exposure to high temperatures or direct sunlight

10.5 Incompatible materials

Materials to avoid -strong acids or alkalis. Oxidising agents.

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**

May cause respiratory irritation. Symptoms may include difficulty breathing, discomfort in chest and upper respiratory tract.

Skin contact

Burning pain and severe corrosive skin damage. Rash

Eye contact

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Ingestion

Burning pain and severe corrosive damage

Symptoms

Burning pain and severe corrosive skin damage. Rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Symptoms may include difficulty breathing, discomfort in chest and upper respiratory tract.

11.1 Information on toxicological effects**Acute toxicity****DIDECYLDIMETHYLAMMONIUM CHLORIDE**

Oral	LD50	238 mg/kg (Rat)
Dermal	LD50	3342 mg/kg (Rabbit)

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-AMINOETHANOL	Oral	LD50	1089 mg/kg (Rat)
	Dermal	LD50	2504 mg/kg (Rat)
	Inhalation	LD50 4h	1487 mg/m ³
POTASSIUM CARBONATE	Oral	LD50	>2000 mg/kg
Skin corrosion/irritation			
DIDECYLDIMETHYLAMMONIUM CHLORIDE		OECD 404 1h	Corrosive (Rabbit)
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)		OECD 404	Not irritating
Serious eye damage/eye irritation			
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)		OECD 405	Not irritating
Respiratory sensitisation			
Based on the available data the mixture is not classified as a respiratory sensitiser.			
Skin sensitisation			
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)		OECD 406	Not sensitising
DIDECYLDIMETHYLAMMONIUM CHLORIDE		Buehler Test	Not Sensitising (Guinea pig)
Germ cell mutagenicity			
ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)		OECD 471	Negative
		HGPRT assay	Negative
		Micronucleus assay	Negative
Carcinogenicity			
Based on the available data not classified as a carcinogen			
IARC Monographs. Overall Evaluation of Carcinogenicity			
Not listed			
Reproductive toxicity			
2-AMINOETHANOL. Has been toxic to the foetus in laboratory animals at doses toxic to the mother. However, the relevance of this to humans is unknown. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.			
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			
2-AMINOETHANOL In animals, effects have been reported on the following organs: Kidney. Liver.			
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			
POTASSIUM CARBONATE		Oral CL50	>500 mg/m ³ (Rat)
Mixture versus substance information			
No data available			

Other information

Not available

12 - ECOLOGICAL INFORMATION

12.1 Toxicity

DIDECYLDIMETHYLAMMONIUM CHLORIDE

Toxicity to fish	LC50 96 h	0.19mg/l <i>Pimephales promelas</i>
	NOEC 34 d	0.032 mg/l <i>Danio rerio</i>
Toxicity to aquatic invertebrates	EC50 48 h	0.062 mg/l <i>Daphnia magna</i>
	NOEC 21 d	0.010 mg/l <i>Daphnia magna</i>
Toxicity to Algae	ErC50 96 h	0.026 mg/l <i>P. subcapitata</i>
Toxicity to Bacteria	EC50 3 h	11 mg/l Activated Sludge

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-AMINOETHANOL

Toxicity to fish	LC50 96 h	349 mg/l <i>Cyprinus carpio</i>
	LOEC 30 d	3.6 mg/l <i>Oryzias latipes</i>
Toxicity to aquatic invertebrates	EC50 48 h	65 mg/l <i>Daphnia magna</i>
	NOEC 21 d	0.85 mg/l <i>Daphnia magna</i>
Toxicity to Algae	ErC50 48 h	2.5 mg/l <i>P. subcapitata</i>
Toxicity to Bacteria	EC50 72 h	> 1000 mg/l Activated sludge

POTASSIUM CARBONATE

Toxicity to fish	LC50	68 mg/l <i>Oncorhynchus mykiss</i>
Toxicity to aquatic invertebrates	LC50	190 mg/l <i>Daphnia magna</i>
	LC50	120 mg/l <i>Daphnia pulex</i>

12.2 Persistence and degradability

DIDECYLDIMETHYLAMMONIUM CHLORIDE

	OECD 301 B 28 d	Readily Biodegradable
	Die away Test 28 d	72%
	OECD 303 A 24-70 d	93.3%
		91 %

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

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

ALANINE, N,N-BIS(CARBOXYMETHYL)-,SODIUM SALT (1:3)	
LogKow	-4.0

12.4 Mobility in soil

No data available

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

02-01-08

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: 3267

IMDG: 3267

IATA: 3267

14.2 UN proper shipping name

ADR/RID: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE)

IMDG: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE)

IATA: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE)

14.3 Transport hazard class (es)

ADR/RID: 8 (C7)

IMDG: 8

IATA: 8

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

IMDG: Marine pollutant: Yes

14.6 Special precautions for users**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N/A

Further information

Limited quantities: 5L

Expected quantities: E1

Transport Category (Tunnel Restriction Code): 3 (E)

Hazard Identification Number: 80

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

C Corrosive
N Dangerous to the environment
F Flammable
Xi Irritant
Xn Harmful
R11 Highly Flammable
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R22 Harmful if swallowed
R34 Causes burns
R36 Irritating to eyes
R36/37/38 Irritating to eyes, respiratory system and skin.
R50 Very toxic to aquatic organisms
H225 Highly flammable liquid and vapour
H290 May be corrosive to metals
H301 Toxic if swallowed
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
H335 May cause respiratory irritation
H410 Very toxic to aquatic life with long lasting
H410 Very toxic to aquatic life with long lasting effects
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/ spray

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

P405 Store Locked up.

P501 Dispose of contents/container in accordance with local regulations.

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.