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

1.1	**Product identifiers**	DP1255 B
	Trade Name or designation	BioTurbo Plus
1.2	**Identification of Uses**	Cleaner
	Uses advised against	No specific uses are advised against
1.3	**Supplier**	Biolink Limited. Halifax Way Pocklington Ind. Est Pocklington York YO42 1NR
	Telephone No.	+44 (0) 1759 303444
	Fax No.	+44 (0) 1759 303158
	Email	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

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 to fresh air. Call a physician if symptoms develop or persist.

Ingestion

Call a physician or poison control centre immediately. Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse..

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

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. (COx, NOx, HCl).
Hydrogen peroxide: Hydrogen. Exothermic reaction with water. Contact with some metals, aluminium, zinc, tin, alloys can produce flammable hydrogen gas. Contact with some organic chemicals can produce violent or explosive reactions.
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-FIGTHERS
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^3 Inhalable aerosol	Austrian OEL Regulation
SODIUM HYDROXIDE	1310-73-2	STEL	4 mg/m^3 Inhalable aerosol	Austrian OEL Regulation
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m^3	Belgium VLEP/GWBB
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m^3	Denmark
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m^3	Denmark
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m^3	France INRS
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m^3	Hungary Decree No. 25/2000 (IX.30)
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m^3	Hungary Decree No. 25/2000 (IX.30)
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m^3	Ireland
SODIUM HYDROXIDE	1310-73-2	TWA	0.5 mg/m^3	Latvia
SODIUM HYDROXIDE	1310-73-2	TWA	0.5 mg/m^3	Poland - NDS
SODIUM HYDROXIDE	1310-73-2	STEL	1 mg/m^3	Poland - NDS
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m^3	Spain - Royal Decree 374/2001
SODIUM HYDROXIDE	1310-73-2	TWA	1 mg/m^3	Sweden
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m^3	Sweden
SODIUM HYDROXIDE	1310-73-2	TWA	2 mg/m^3 Inhalable aerosol	Switzerland
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m^3 Inhalable aerosol	Switzerland
SODIUM HYDROXIDE	1310-73-2	STEL	2 mg/m^3	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^3
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^3

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^3
Dermal	Workers	Chronic	1d	75 mg/kg
Inhalation	Workers	Chronic		98mg/m^3
Dermal	Consumers	Acute	1d	44.5 mg/kg
Inhalation	Consumers	Acute		426 mg/m^3
Ingestion	Consumers	Acute	1d	13.4 mg/kg
Inhalation	Consumers	Local		123 mg/m^3
Dermal	Consumers	Chronic	1d	38 mg/kg

Inhalation	Consumers	Chronic		49mg/m^3
Ingestion	Consumers	Chronic	1d	3.2 mg/kg

SODIUM HYDROXIDE

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

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^3
Dermal	Workers	Chronic	1d	75 mg/kg
Inhalation	Workers	Chronic		98mg/m^3
Dermal	Consumers	Acute	1d	44.5 mg/kg
Inhalation	Consumers	Acute		426 mg/m^3
Ingestion	Consumers	Acute	1d	13.4 mg/kg
Inhalation	Consumers	Local		123 mg/m^3
Dermal	Consumers	Chronic	1d	38 mg/kg
Inhalation	Consumers	Chronic		49mg/m^3
Ingestion	Consumers	Chronic	1d	3.2 mg/kg

SODIUM HYDROXIDE

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

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
pH	> 13.0
BP/BP Range	>100°C
MP/MP Range	<0°C
SG/Density:	1.0 – 1.1 g/ml (1.05 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)
MASS OF (2S)-ALANINE, N, N-BIS (CARBOXYMETHYL)-, TRISODIUM SALT AND (2R)-ALANINE, N,N BIS(CARBOXYMETHYL)-, TRISODIUM SALT			
	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 (*S. typhimurium*)

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

MASS OF (2S)-ALANINE, N, N-BIS (CARBOXYMETHYL)-, TRISODIUM SALT AND (2R)-ALANINE, N, N BIS (CARBOXYMETHYL)-, TRISODIUM SALT

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

2-BUTOXYETHANOL

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

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 Readily biodegradable

OECD 301 E 28 d >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.