



SAFETY DATA SHEET PURESAN BIOPURE

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

1.1. Product Identifier

Product name PURESAN BIOPURE
REACH registration notes This product is a mixture.

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

Identified Use(s) Cleaner and Deodorizer
 Product containing biological enzymes which eliminate bacteria that cause washroom odours.
 Product is for professional use only.

1.3. Details of the supplier of the safety data sheet

Supplier Unicorn Hygienics Limited
 The Green,
 Tullynacross Road
 Lisburn, BT27 5SR,
 028 92 640827

1.4. Emergency telephone number

Emergency telephone TO GET HELP FROM NHS 111: GO TO 111.NHS.UK OR CALL 111.
 NHS 111 IS AVAILABLE 24 HOURS A DAY, 7 DAYS A WEEK.

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2b - H320
Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word WARNING
Hazard statements H315 Causes skin irritation.
 H320 Causes eye irritation.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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2.3. Other hazard

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2-bromo-2-nitro-1,3-diol	<0.1%
CAS Number: 52-51-7	EC number: 200-143-0
Classification H315 Skin Irrit. Cat. 2 H318 Eye Irrit. Cat. 1	

1-propanaminium, 3- amino-n- (carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs.,hydroxides, inner salts	1-10%
CAS number: 61789-40-0	EC number: 931-513-6
Classification Xi; R41 Eye Dam. 1, H318	

Coco amides, N-[3- (dimethylamino)propyl]	0.1-1%
CASnumber: 68140-01-2	
Classification Xn; R22, R34, R50 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1 H318 Aquatic Acute 1, H400	

2, 4-dichlorobenzyl alcohol	<0.1%
CAS number: 1777-82-8	EC number: 217-210-5
Classification H332 Acute Tox. Cat 4 H318 Eye irrit. Cat 1 H412 Chronic aquatic Tox Cat 3	

Xanthan gum	0.1-1%
CAS Number: 11138-66-2	EC number: 234-394-2
Classification Not Classified	

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	No information available.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye contact	Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Protection of first aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

General information	No information available.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	Irritating to mouth, throat, and stomach.
Skin contact	Irritating to skin.

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Eye contact Irritating to eyes. Adverse symptoms may include the following: pain or irritation, watering, redness.

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

Notes for the doctor In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments Symptomatic treatment and supportive therapy as indicated. Following severe exposure, the patient should be kept under medical review for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

1. Nitrogen Oxides
2. Halogenated Compounds
3. Metal Oxide/Oxides

5.3. Advice for firefighters

Protective actions during firefighting Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective equipment for firefighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots, and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions For personal protection, see Section 8.

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk-through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2. Environmental precautions

Environmental precautions Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Small Spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections

Reference to other sections See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

7.1. Precautions for safe handling

Protective Measures Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Storage class	No information available.

7.3. Specific end use(s)

Recommendations:	The identified uses for this product are detailed in Section 1.2
Usage description:	No information available.

SECTION 8: Exposure controls/Personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1. Control parameters

Occupational Exposure Limits

No information available.

RECOMMENDED MONITORING PROCEDURES

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

DERIVED EFFECT LEVELS

No DELs available.

PREDICTED EFFECT CONCENTRATIONS

No PECs available.

8.2. Exposure control

Appropriate engineering controls	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Personal protection	No information available.
Eye/face protection	If deemed necessary, safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts.
Hand protection	If deemed necessary, chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Additional information can be found for instance at www.gisbau.de .
Other skin and body protection	If deemed necessary, personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Hygiene measures	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection	Not deemed necessary under normal working conditions where adequate ventilation is available.
Thermal hazards	No information available.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid.
Colour	Milky.
Odour	Characteristic.
Odour threshold	No information available.
pH	6 - 7 [Conc. (% w/w): 1%]
Melting point	<0°C
Initial boiling point & range	>100°C
Flash point [Closed Cup]	Open cup >150°C
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available
Vapour Pressure	No information available.
Vapour Density	No information available
Relative Density	No information available
Solubility(ies)	> 10 g/l. 20 deg C – Water solubility
Other	Easily Soluble in the following materials: cold water and hot water
Partition coefficient: octanol/	
Water	No information available
Auto-ignition temperature	No information available.
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available.
Oxidising properties	No information available

9.2. Other Information

Density	1.01 to 1.05g/cm ³
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No specific test data related to reactivity for this product or its ingredients.

10.2. Chemical stability

Stability Stable

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Conditions to avoid No specific data.

10.5. Incompatible materials

Materials to avoid No specific data.

10.6. Hazardous decomposition products

Hazardous decomposition products No information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ACUTE TOXICITY

Product/Ingredient Name	End Point	Species	Result	Exposure
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	LC50 Inhalation Dusts and mists	Rat	>5mg/L	4 hours
	LD50 Dermal	Rat - Male, Female	>620mg/kg	-
	LD50 Oral	Rat-Male, Female	2430 mg/Kg	-
Coco amides, N-[3-(dimethylamino)propyl]	LC50 Inhalation Dusts and Mists	Rat	>5 mg/L	4 hours
	LD50 Dermal	Rat	>2000 mg/Kg	-
	LD50 Oral	Rat-Female	300 mg/Kg	-

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IRRITATION/CORROSION

Product/Ingredient Name	Test	Species	Result
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	OECD OECD 405	Rabbit	Severe irritant
Coco amides, N-[3-(dimethylamino)propyl]	OECD OECD 404 OECD OECD 404	Rabbit Rabbit	Non-irritant Corrosive

Conclusion/Summary.

Skin: 1-propanaminium, 3-amino-n-(carboxymethyl)-n,n-dimethyl-,N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts: Non-irritating to the skin.

Eyes: 1-propanaminium, 3-amino-n-(carboxymethyl)-n,n-dimethyl-,N-(C12-18(even numbered) acyl)derivs.,hydroxides, inner salts: Severely irritating to eyes.

SENSITISER

Product/Ingredient Name	Test	Route of exposure	Species	Result
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	OECD 406 Skin Sensitization	Skin	Guinea pig	Not sensitizing

MUTAGENICITY

Product/Ingredient Name	Test	Result
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	OECD 471 Bacterial Reverse Mutation Test	Negative
	EU OECD 476 In vitro Mammalian Cell Gene Mutation Test	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Negative
Coco amides, N-[3-(dimethylamino)propyl]	OECD 471 Bacterial Reverse Mutation Test	Negative

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CARCINOGENICITY REPRODUCTIVE TOXICITY

Product/Ingredient Name	Test	Species	Result/Result Type	Target Organs
1-propanaminium, 3-amino-n-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	-	-	-	-
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	-	Rat	Oral: 100 mg/kg NOEL :	-

TERATOGENICITY

Product/Ingredient Name	Test	Species	Result/Result Type
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	OECD 414 Prenatal Developmental Toxicity Study	Rat-Female	1000mg/kg NOEL

Skin corrosion/irritation

Skin corrosion/irritation No known significant effects or critical hazards.

Animal data No information available.

Human skin model tests No information available.

Extreme pH No information available.

Serious eye damage/irritation

Serious eye damage/irritation Severely irritating to eyes. Risk of serious damage to eyes. Adverse symptoms may include the following: Pain or irritation Watering Redness Delayed and immediate effects and also chronic effects from short- and long-term exposure.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Adverse symptoms may include the following: Irritation & Redness

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Potential Chronic Health Effects

Product/Ingredient Name	Test	Result Type	Result	Target Organs
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	NOEL : Subchronic NOEL : Oral	300 mg/kg	-

SECTION 12: Ecological information

TOXICITY

Product/Ingredient Name	Test	End Point	Exposure	Species	Result
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts Coco amides, N-[3-(dimethylamino)propyl]	OECD OECD 202: Part I (Daphnia sp., Acute Immobilisation test)	Acute EC50	48 hours Static	Daphnia	1.9 mg/L
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute EC50	48 hours Static	Daphnia	6.5 mg/L
	OECD 201 Alga, Growth Inhibition Test	Acute ErC50 (growth rate)	72 hours Static	Algae	9.86 to 15.3mg/L
	ISO 10253:2006 - Marine algal growth inhibition test with <i>Skeletonema costatum</i> and <i>Phaeodactylum tricornutum</i>	Acute ErC50 (growth rate)	72 hours Static	Algae	0.74 mg/L
	ISO	Acute ErC50 (growth rate)	72 hours Static	Daphnia	7 mg/L
	OECD 203 Fish, Acute Toxicity Test	Acute LC50	96 hours Semistatic	Fish	1.11 mg/L
	ISO	Chronic EC50	16 hours Static	Bacteria	3000 mg/L
	OECD 211 <i>Daphnia</i> Magna	Chronic	21 days	Daphnia	2.98 mg/L
	OECD	Chronic NOEC	100 days Flowthrough	Fish	0.135mg/ml
	DIN DIN 38412 part 9	Chronic NOECr	72 hours	Algae	0.09 mg/L
	OECD 201 Alga, Growth Inhibition Test	Chronic NOECr	72 hours	Algae	3.86 to 6.18 mg/L
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute EC50	48 hours Static	Daphnia	0.28 mg/L
	-	Acute EC50	96 hours	Fish	<10 mg/L
	OECD 201 Alga, Growth Inhibition Test	Acute ErC50 (growth rate)	72 hours Static	Algae	0.086 mg/L
	-	Acute IC50	16 hours	Bacteria	570 mg/L

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12.2 PERSISTENCE AND DEGRADABILITY

Product/Ingredient Name	Test	Period	Result
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	OECD 301D Ready Biodegradability - Closed Bottle Test	28 Days	93%
	OECD 302B Inherent Biodegradability: Zahn-Wellens/EMPA Test	28 Days	89.4 to 98%
	28 days 89.4 to 98 % EPA OPPTS	28 Days	87.2%
Coco amides, N-[3-(dimethylamino)propyl]	ISO	60 days	80 to 90%
	OECD 306 Biodegradability in seawater	28days	76%
	OECD 301B ready biodegradability – CO2 evolution test	28days	71%
	OECD 301D ready biodegradability –closed bottle test	28days	85%

12.3 BIOACCUMULATIVE POTENTIAL

Product/Ingredient Name	LogP _{ow}	BCF	Potential
1-propanaminium, 3-aminon-(carboxymethyl)-n,ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts	4.2	3 to 71	Low
Coco amides, N-[3-(dimethylamino)propyl]	6.1	-	High

12.4 MOBILITY IN SOIL

Soil/water partition

Coefficient (k_{oc}) Not available

Mobility Not available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Not applicable

12.6 OTHER ADVERSE EFFECTS

No known significant effects or critical hazards.

12.7 OTHER ECOLOGICAL INFORMATION

Not available

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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

13.1. Waste treatment methods

General information	Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Disposal methods	<p>Product:</p> <p>The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.</p> <p>Packaging:</p> <p>The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</p> <p>Special Precautions</p> <p>This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.</p>

Hazardous Waste Yes.

SECTION 14: Transport information

14.1. UN number

Not applicable.

14.2. UN proper shipping name

ADR/RID Not Regulated

ADN/ADNR Not Regulated

IMDG Not Regulated

IATA Not Regulated

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

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14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	No information available.
EU Legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	No information available.
Health and environmental listings	No information available.
Authorisations (Annex XIV Regulation 1907/2006)	No information available.
Restrictions (Annex XVII Regulation 1907/2006)	No information available.
References	The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognized abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.

Chemical Weapons

Convention List Schedule I	Not Listed
Convention List Schedule II	Not Listed
Convention List Schedule III	Not Listed

15.2 CHEMICAL SAFETY ASSESSEMENT

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ECHA: European Chemicals Agency ATE: Acute Toxicity Estimate
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 CAS# / CAS NO. CAS-numero (eräs kemikaalien tunnistenumero)
 DNEL: Derived No Effect Level C&L: Classification and Labelling
 EC NO.: EINECS and ELINCS Number (see also EINECS and ELINCS) EINECS: European Inventory of Existing Commercial Substances
 IATA: International Air Transport Association kow: octanol-water partition coefficient

kow: octanol-water partition coefficient
 LC50: Lethal Concentration to 50 % of a test population
 LD50: Lethal Dose to 50% of a test population (Median Lethal Dose)
 SDS: Safety Data Sheet
 OECD: Organization for Economic Co-operation and Development
 PBT: Persistent, Bioaccumulative and Toxic substance
 PEC: Predicted Effect Concentration
 PNEC: Predicted No Effect Concentration(s)
 PPE: Personal Protection Equipment
 QSAR: Qualitative Structure Activity Relationship
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
 SIEF: Substance Information Exchange Forum
 STOT: Specific Target Organ Toxicity
 STOT (RE): Repeated Exposure
 STOT (SE): Single Exposure
 vPvB: Very Persistent and Very Bioaccumulative

General information No information available

Classification procedures according to Regulation (EC) 1272/2008

Training advice No information available.

Revision comments This is the first issue. Classification in accordance with REACH registration dossier and HSPA recommendations.

Revision date 28/01/2021

Revision 1.0

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