

1708 - APS ≥98%



SEC	TION 1: IDENTIFICATION OF THE	E SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifier:	1708 - APS ≥98%	
		diammonium peroxodisulphate	
	CAS:	7727-54-0	
	Other means of identification:		
	Non-applicable		
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against:		
	Relevant uses: For use in laboratory and production. Not for human or animal use For professional users only.		
	Uses advised against (Professional use	rs): Not for human or animal use	
1.3	Details of the supplier of the safety o	lata sheet:	
	GERBU Biotechnik GmbH 69123 Heidelberg - Germany Phone: +49 6221 7264167 safety@gerbu.de www.gerbu.de		
1.4	Emergency telephone number: Toxic +49	cological Information Freiburg (0) 761 19240	

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GBCLP Regulation:

Classification of this product has been carried out in accordance with GB CLP Regulation.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302 Eve Irrit 2: Eve irritation, Category 2, H319

Eye Irrit. 2: Eye irritation, Category 2, H319 Ox. Sol. 3: Oxidising Solid, Category 3, H272 Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

GBCLP Regulation:

Danger



Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed. Eye Irrit. 2: H319 - Causes serious eye irritation. Ox. Sol. 3: H272 - May intensify fire, oxidiser. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378: In case of fire: Use large quantities of water to extinguish the fire. P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Chemical substance

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

	Identification	Chemical name/Classification	Concentra	ation
CAS:	7727-54-0	diammonium peroxodisulphate Acute Tox. 4: H302; Eye Irrit. 2: H319; Ox. Sol. 3: H272; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	75-<10	0%
To ob	tain more informat	ion on the hazards of the substances consult sections 11, 12 and 16.		

3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product. By inhalation:

- . .

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Use preferably water.

Unsuitable extinguishing media:

Chemical extinguishers or foam.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).





SECTION 5: FIREFIGHTING MEASURES (continued)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

MAY INTENSIFY FIRE, OXIDISER. Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground. For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

Methods and material for containment and cleaning up:

It is recommended:

6.3

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling:
 - A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

AVOID ANY IGNITION SOURCE, as well as combustible and/or inflammable material. Devices and systems must comply with the essential safety and health requirements and, with the minimum requirements for improving the health and safety protection of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 8 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:



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0.203 mg/kg

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Substances whose occupational exposure limits have to be monitored in the workplace: Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

DNEL (Workers):

		Shorte	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
diammonium peroxodisulphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7727-54-0	Dermal	Non-applicable	Non-applicable	9.5 mg/kg	Non-applicable
EC: 231-786-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	0.824 mg/m ³

DNEL (General population):

		Shortexposure		Lo	ng exposure
Identification		Systemic	Local	Systemic	Local
diammonium peroxodisulphate	Oral	1.41 mg/kg	Non-applicable	0.47 mg/kg	Non-applicable
CAS: 7727-54-0	Dermal	Non-applicable	Non-applicable	4.8 mg/kg	Non-applicable
EC: 231-786-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	e 0.421 mg/m ³
PNEC:					
Identification					
diammonium peroxodisulphate	STP	3.6 mg/L	Fresh water		0.518 mg/L
CAS: 7727-54-0	Soil	0.1 mg/kg	Marine water		0.052 mg/L
EC: 231-786-5	Intermittent	0.763 mg/L	Sediment (Fresh	water)	2.03 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

Oral

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection, ..) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Non-applicable

Sediment (Marine water)

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
Specific protection	for the hands	

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatoryhand protection	NON-disposable chemical protective gloves	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.
Eye and face prote	ection	
Pictogram	PPE	Remarks
Mandatoryface	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions Use if there is a risk of splashing.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
Mandatory complete body protection	Disposable clothing for protection ag chemical risks	t For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatoryfoot protection		cal Replace boots at any sign of deterioration.
Additional emerge	ncy measures	
Emergency mea	isure Standards	Emergency measure Standards

Emergency measure	Stanuarus	Emergency measure	Stanuarus
^ +	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	◎ + ⊤	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

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For complete information see the product datashe	et.
Appearance:	
Physical state at 20 ºC:	Solid
Appearance:	Crystalline
Colour:	White
Odour:	Odourless
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 ºC:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 ºC:	Non-applicable *
Product description:	
Density at 20 ºC:	1980 kg/m³
Relative density at 20 ºC:	1.98
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 40 ºC:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	620 kg/m³
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
*Not relevant due to the nature of the product, not providing i	nformation property of its hazards.
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SEC	TION 9: PHYSICAL AND CHEMICAL PROPER	TIES (continued)
	Melting point/freezing point:	120 ºC
	Flammability:	
	Flash Point:	Non-applicable
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Explosive (Solid):	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable *
9.2	Other information:	
	Information with regard to physical hazard classes	
	Explosive properties:	Non-applicable *
	Oxidising properties:	H272 May intensify fire, oxidiser.
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 ºC:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing inform	ation property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

10.5

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Notapplicable	Notapplicable	Notapplicable	Notapplicable	Notapplicable
Incompatible materials:					
	Acids	Water	Oxidising materials	Combustible materials	Others
	Avoid strong acids	Notapplicable	Notapplicable	Avoid direct impact	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:
 - Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as
 - it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Product-specific toxicological information:

Acute toxicity			Genus		
LD50 oral	689 mg/kg	Rat			
Specific toxicology information on the substances:					
	Identification	Acute toxicity	Genus		
diammonium peroxodisi	ulphate	LD50 oral 689 mg/l	kg Rat		
CAS: 7727-54-0		LD50 dermal Non-app	licable		
		LC50 inhalation Non-apr	licable		

SECTION 12: ECOLOGICAL INFORMATION							
12.1 Toxicity	r.						
Produc	Product-specific aquatic toxicity:						
	Acute toxicity	Species	Genus				
LC50	76 mg/L (96 h)	Non-applicable	Fish				



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SECTION 12: ECOLOGICAL INFORMATION (continued)

	EC50 136 mg/L (48 h)		Daphnia magna	Crustacea	Crustacean	
	Substance-specific aquatic toxicity:					
	Acute toxicity:					
	Identification		Concentration	Species	Genus	
	diammonium peroxodisulphate	LC50	76 mg/L (96 h)	Oncorhynchus mykiss	Fish	
	CAS: 7727-54-0	EC50	120 mg/L (48 h)	Daphnia magna	Crustacean	
		EC50	Non-applicable			
	Chronic toxicity:					
	Identification		Concentration	Species	Genus	
	diammonium peroxodisulphate	NOEC	Non-applicable			
	CAS: 7727-54-0	NOEC	20.8 mg/L	Daphnia magna	Crustacean	
12.2	Persistence and degradability:					
	Not available					
12.3	Bioaccumulative potential:					
	Not available					
12.4	Mobility in soil:					
	Not available					
12.5	Results of PBT and vPvB assessment:					
	Product fails to meet PBT/vPvB criteria					
12.6	Product fails to meet PBT/vPvB criteria Other adverse effects:					
12.6						

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Type of waste:

HP2 Oxidising, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant – skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land: With regard to ADR 2021 and RID 2021:





SECTION 14: TRANSPORT INFORMATION (continued) 14.1 UN number: UN1444 14.2 UN proper shipping name: AMMONIUM PERSULPHATE 14.3 Transport hazard class(es): 5.1 Labels: 5.1 14.4 Packing group: ш 14.5 Environmental hazards: No 14.6 Special precautions for user Tunnel restriction code: Е Physico-Chemical properties: see section 9 5 kg Limited quantities: 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code: Transport of dangerous goods by sea: With regard to IMDG 40-20: 14.1 UN number: UN1444 14.2 UN proper shipping name: AMMONIUM PERSULPHATE 14.3 Transport hazard class(es): 51 Labels: 5.1 14.4 Packing group: ш 14.5 Marine pollutant: No 14.6 Special precautions for user Special regulations: Non-applicable EmS Codes: F-A, S-Q Physico-Chemical properties: see section 9 Limited quantities: 5 kg Segregation group: SGG2 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code: Transport of dangerous goods by air: With regard to IATA/ICAO 2022: 14.1 UN number: UN1444 0 14.2 UN proper shipping name: AMMONIUM PERSULPHATE 14.3 Transport hazard class(es): 5.1 Labels: 5.1 14.4 Packing group: Ш 14.5 Environmental hazards: No 14.6 Special precautions for user Physico-Chemical properties: see section 9 14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the IBC Code:

.1	Safety, health and environmental regulations/legislation specific for the substance or mixture: - Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable The Control of Major Accident Hazards Regulations 2015:						
	Section	Description	Lower-tier requirements	Upper-tier requirements			
	P8	OXIDISING LIQUIDS AND SOLIDS	50	200			
	Restriction Non-applica	s to commercialisation and the use of certain dangerous substances and mixture	s (Annex XVII Uk	< REACH, etc)			



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SECTION 15: REGULATORY INFORMATION (continued)

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

H272: May intensify fire, oxidiser.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GBCLP Regulation:

Acute Tox. 4: H302 - Harmful if swallowed.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Ox. Sol. 3: H272 - May intensify fire, oxidiser.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H335 - May cause respiratory irritation.

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Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

- LD50: Lethal Dose 50
- LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareneess or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.