

#### **HEALTH AND SAFETY DATA SHEET**

According to Annex II to REACH -Regulation 2020/878 and to Annex II to UK REACH Revised Date: 24/04/2024

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### 1. PRODUCT AND COMPANY IDENTIFICATION

	Product Code	AFS3500
1.1	Product name	AQUIMAX FLAMESHEILD FR CLEAR BASECOAT
1.2	Relevant identified uses of the substance or mixture and uses advised against	Water-based top coat, interior, for industrial and professional uses Industrial: PROC: 10, 13, 7. PC: 9a. Professional: PROC: 10, 11, 13. PC: 9a. All uses not mentioned among recommended uses.
1.3	Name, Address, Telephone Number of the chemical manufacturer	Ultrimax Coatings Ltd Shaw Lane Industrial Estate, Ogden Road, Doncaster, DN2 4SE 01302 856666
1.4	Emergency phone number	01302 856666

### 2. HAZARD(S) IDENTIFICATION

	Classification of the substance or mixture	The product is not classified as hazardous pursuant to the	
2.1	CLP Regulation (EC) No 1272/2008	provisions set forth in EC Regulation 1272/2008 (CLP).  However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU)  Regulation 2020/878.	
	Label elements	N/A	
	CLP Regulation (EC) No 1272/2008	IN/A	
2.2	Hazard Statements	Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl-2H- isothiazol-3-one (3:1)  May produce an allergic reaction.	
	Precautionary statements	VOC(Directive 2004/42/EC): One - pack performance coatings. voe given in g/litre of product in a ready-to-use condition: 60,69 Limit value: 140,00	



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	Supplementary information	May produce an allergic reaction.	
2.2	Substances that contribute to the classification	Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)	
	Additional Labelling	-	
2.3	Other Hazards	On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0, 1 %. The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1 %.	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances	Not applicable (N/A)
	Mixtures	Dalvisaavanata
	Chemical description	- Polyisocyanate
3.2	Components	In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:  contains  Identification





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### 4. FIRST-AID MEASURES

	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	Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.
4.1	By skin contact	Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
	By eye contact	Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
	By ingestion / aspiration	Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
4.2	Most important symptoms / effects, acute and delayed	Specific information on symptoms and effects caused by the product are unknown.
4.3	Indication of immediate medical attention and special treatment needed, if necessary	Not applicable (N/A)

### 5. FIRE-FIGHTING MEASURES

	Extinguishing media	SUITABLE EXTINGUISHING EQUIPMENT		
		The extinguishing equipment should be of the conventional		
5.1	Suitable extinguishing media	kind: carbon dioxide, foam, powder and water spray.		
3.1		UNSUITABLE EXTINGUISHING EQUIPMENT		
	Unsuitable extinguishing media	None in particular.		
E 3	Charific hazarde aricina from the chamical	HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE		
5.2 Specific hazards arising from the chemical Do not breathe combustion produ				





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### 5. FIRE-FIGHTING MEASURES CONTINUED

5.3	Advice for firefighters	Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.		
	Special protective equipment for fire fighters	Normal fire fighting clothing i.e fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self contained open circuit positive compressed air breathing apparatus (BS EN 137).		

### 6. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures:	Block the leakage if there is no hazard.  Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures
6.2	Environmental precautions	The product must not penetrate into the sewer system or come into contact with surface water or ground water.
6.3	Methods and materials for containment and cleaning up	Collect the leaked product into a suitable container.  Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.  Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.
6.4	Reference to other sections	Any information on personal protection and disposal is given in sections 8 and 13.



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### 7. HANDLING AND STORAGE

7.1	Precautions for safe handing	Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.
7.2	Conditions for safe storage, including any incompatibilities	Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.
7.3	Specific end use(s)	See the exposure scenarios attached to this safety datasheet.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters (United Kingdom)	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.





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	Threshold Limit Value							
	2-(2-BUTOXYETHOXY)ETHANOL							
	Туре	Country	TWA/8h	ppm	STEL/15min	ppm	Remarks / Observations	
	OEL	EU	67,5 mg/ m3	10	101,2 mg/m3	15	-	
8.1	WEL	GBR	67,5 mg/m3	10	101,2 mg/3	15	-	
		Normal value in fresh water			1, 1 mg/l			
		Norm	al value in marine	water	0,11 mg/l			
		Normal va	llue for fresh water	sediment	4,4 mg/klg			
	Predicted no-effect	Normal val	ue for marine wate	er sediment	0,44 mg/kg			
	concentration - PNEC	Normal value	mal value for water, intermittent release		11 mg/l			
		Normal v	Normal value of STP microorganisms			200 mg/l		
		Normal value for the food chain (secondary poisoning)			56 mg/kg			
		Normal value	for the terrestrial	compartment		0,32 mg/kg		





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	,	Effects on consumer						
		Route of exposure	Acute Local	Acute systematic	Chronic Local	Chronic systematic		
		oral		NPI	1,25	1,25 mg/kg/ bw/d		
		Inhalation	LOW NPI LOW  NPI NPI NPI	NPI				
	Health - Derived no-effect	Skin	NPI	NPI	NPI	NPI		
8.1	level - DNEL / DMEL	Effects on workers						
	10.00. 21.121, 21.122	Route of exposure	Acute Local	Acute systematic	Chronic Local	Chronic systematic		
		oral						
		Inhalation	101,2 mg/m3	NPI	67,5 mg/m3	NPI		
		Skin	NPI	NPI	LOW	NPI		

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	Threshold Limit Value								
	1,2-PROPANEDIOL								
	Туре	Country	TWA/8h	ppm	STEL/15min	ppm	Remarks / Observations		
	WEL	GBR	10 mg/m3				Particulates		
		Norn	nal value in fresh v	water		260 mg/l			
8.1		Normal value in marine water			26 mg/l				
		Normal va	lue for fresh wate	r sediment	572 mg/kg				
	Predicted no-effect concentration - PNEC	Normal value for marine water sediment			57,2 mg/kg				
	concentration - FNEC	Normal value for water, intermittent release				183 mg/l			
		Normal va	alue of STP micro	organisms	183 mg/l				
		Normal value for the food chain (secondary poisoning)				20000 mg/l			
		Normal value	for the terrestrial	compartment		50 mg/kg			





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				Effects on consume	r			
	Health - Derived no-	Route of exposure	Acute Local	Acute systematic	Chronic Local	Chronic systematic		
		oral				85 mg/kg bw/d		
		Inhalation			10 mg/m3	50 mg/m3		
0.1		Skin				213 mg/kg bw/d		
8.1	effect level - DNEL / DMEL	Effects on workers						
		Route of exposure	Acute Local	Acute systematic	Chronic Local	Chronic systematic		
		oral						
		Inhalation			10 mg/m3	168 mg/m3		
		Skin						

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	Threshold Limit Value								
	Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)								
	Туре	Country	TWA/8h	ppm	STEL/15min	ppm	Remarks / Observations		
	AGW	DEU	0,2						
	MV	SVN	0,05						
8.1		Normal value in fresh water			0,00339 mg/l				
		Norma	al value in marine	water	0,00339 mg/l				
		Normal va	lue for fresh wate	r sediment	0,027 mg/kg				
	Predicted no-effect concentration - PNEC	Normal valu	ue for marine wat	er sediment	0,027 mg/kg				
		Normal value for water, intermittent release			0,00339 mg/l				
		Normal va	alue of STP micro	organisms	0,23 mg/l				
		Normal value for the terrestrial compartment				0,01 mg/kg			





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			l	Effects on consume	r			
	Health - Derived no-	Route of exposure	Acute Local	Acute systematic	Chronic Local	Chronic systematic		
		oral		0,11 mg/ kg bw/d		0,09 mg/kg bw/d		
		Inhalation	0,02 mg/m3		0,04 mg/3	50 mg/m3		
8.1	effect level - DNEL / DMEL	Effects on workers						
		Route of exposure	Acute Local	Acute systematic	Chronic Local	Chronic systematic		
		oral						
		Inhalation	0,04 mg/m3		0,02 mg/m3			



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	Threshold Limit Value									
	PENTAERYTHRITOL									
	Туре	Country	TW	/A/8h	р	pm	STEL/15	min	ppm	Remarks / Observations
	TLV-ACGIH	DEU	10 n	ng/m3						
		Norr	nal valu	e in fresh v	vater				4 mg/l	
	Predicted no-effect concentration - PNEC	Norm	Normal value in marine water				0,2 mg/l			
		Normal value of STP microorganisms			50 mg/l					
8.1		Effects on consumer								
		Route of exposure		Acute Local Acute		Acute sy	systematic Chronic Local		onic Local	Chronic systematic
		oral								5 mg/kg bw/d
		Inhalatio	on							8,7 mg/m3
		Skin								5 mg/kg bw/d
						Effects on	workers			
		Route of exp	osure	Acute L	.ocal	Acute sy	stematic	Chro	nic Local	Chronic systematic
		oral								
		Inhalatio	n							11,8 mg/m3
		Skin								10 mg/kg bw/d





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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Take the normal precautions for handling chemicals and apply an adequate standard of workplace hygiene. Users must assess the risks in their workplace and adopt:

- Primary collective protective measures such as adequate natural ventilation and local extraction
- Personal protective equipment to manage the combination of residual risks

Personal protective equipment varies according to the possible exposure and hazardousness of the working conditions, so the final choice depends on the risk assessment.

		Hand protection	Use category III chemical resistant gloves according to the EN 374 standard Brief contact (splash protection) - non-exhaustive list Suitable material: NITRILE RUBBER (NBR) Glove thickness: greater than 0.4 mm Breakthrough time: from 30 to 60 minutes Breakthrough index: at least 2 The gloves must be replaced if there are signs of deterioration. In any case, users must assess the risks to determine the most suitable type of glove for the conditions of use.		
	Exposure controls	Skin protection	Wear work clothes and safety footwear that complies with EN ISO 20344		
8.2		Eye protection	Wear safety glasses (UNI EN ISO 16321-1)		
		Respiratory protection	Use a mask with EN140 and/or EN136 approval, with an ABEK type filter (EN 14387)		
		Environmental exposure controls	The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.  For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.		



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

	Information on basic physical and chemical properties	For complete information s	see the product datasheet	
		Physical state at 20°C	Liquid	
		Appearance	N/A	
	Appearance	Colour	N/A	
		Odour	N/A	
		Odour Threshold	N/A*	
		Boiling point at atmospheric pressure	195°C	
	Volatility	Vapour pressure at 25°C	165 Pa	
		Vapour pressure at 50°C	822,58 Pa (0.82 kPa)	
		Evaporation rate at 25°C	N/A*	
		Density at 25°C	1108,1 kg/m³	
		Relative density at 25°C	1,108	
		Dynamic viscosity at 25°C	200 cP	
		Kinematic viscosity at 25°C	N/A*	
9.1		Kinematic viscosity at 40°C	N/A*	
		Concentration	N/A*	
	Product description	рН	N/A*	
	rroduct description	Vapour density at 25 °C	N/A*	
		Partition coefficient n-	N/A*	
		octanol/water 25 °C		
		Solubility in water at 25 ℃	N/A*	
		Solubility properties	N/A*	
		Decomposition temperature	N/A*	
		Melting point/freezing point	N/A*	
		Flash point	Non flammable (>60°C)	
		Flammability (solid, gas)	N/A*	
	Flammability	Autoignition temperature	430°C	
		Lower flammability limit	N/A*	
		Upper flammability limit	N/A*	
	Particle characteristics	Median equivalent diameter	N/A	
		Explosive properties	N/A*	
		Oxidising properties	N/A*	
	Other information	Corrosive to metals	N/A*	
	Information with regard to physical hazard classes	Heat of combustion	N/A*	
9.2		Aerosols-total percentage (by		
		mass) of flammable	N/A	
		components Surface tension at 25°C	NI / A *	
	Other safety characteristics		N/A*	
		Refraction index	N/A*	



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

		Properties	Value	
		Appearance	Liquid	
		Colour	Larch	
		Odour	Almost odourless	
		Melting point /freezing point	Not available	
		initial boiling point	> 65°C	
		flammability	Not available	
		Lower explosive limit	Not available	
		Upper explosive limit	Not available	
9.1	Information on basic physical and chemical properties	Flash point	> 60°C	
	and chemical properties	Auto-ignition temperature	Not available	
		Decomposition temperature	Not available	
		рН	7,0-9,0	
		Kinematic viscosity	Not available	
		Solubility	Soluble in water	
		Partition coefficient n-octanol/water	Not available	
		Vapour pressure	Not available	
		Density and/or relative density	1,2	
		Relative vapour density	Not available	
		Particle characteristics	Not applicable	
9.2		Other information		
9.2.1	Information with regard to physical hazard classes	Information n	ot available	
		Total solids (250°C / 482° F)	59,56 %	
9.2.2	Other safety characteristics	VOC (Directive 2004/42/EC)	5,06 % - 60,69 g/litres	
7.2.2	Other salety characteristics	Explosive properties	Not applicable	
		Oxidising properties	Not applicable	





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### 10. STABILITY AND REACTIVITY

	PENTAERYTHRITOL - Incompatible materials: strong oxidis	ing agents, strong acids, acylic chlorides, anhydrides					
10.1	Reactivity	There are no particular risks of reaction with other substances in normal conditions of use.					
	2-(2-BUTOXYETHO) Forms peroxides 1,2-PROPANEDIOL - Hygroscopic. Stable in	with: air.					
10.2	The product is stable in normal conditions of use storage.						
	2-(2-BUTOXYETHOXY)ETHANOL: Stable in normal conditions	s of use and storage. Avoid exposure to: air, heat, light.					
10.3	Possibility of hazardous reactions	No hazardous reactions are foreseeable in normal condition of use and storage.					
	2-(2-BUTOXYETHOXY)ETHANOL: May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium. May form explosive mixtures with: air.						
	1,2-PROPANEDIOL:May react dangerously with: acid chlorides, acid anhydrides, oxidising agents.						
10.4	Condition to avoid	May react dangerously with: acid chlorides, acid anhydrides, oxidising agents.					
	2-(2-BUTOXYETHOXY)ETHANO	L: Avoid exposure to: air.					
10.5	Incompatible	le materials					
10.3	2-(2-BUTOXYETHOXY)ETHANOL: Incompatible with: oxidising substances. strong acids, alkaline metals.						
	Hazardous decom	position products					
10.6	2-(2-BUTOXYETHOXY)ETHAN	NOL: May develop: hydrogen.					
	1,2-PROPANEDIOL: May	develop: carbon oxides.					





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### 11. TOXICOLOGICAL INFORMATION

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

	Information on hazard classes as defined in Regulation (EC) No 1272/2008						
	Metabolism, toxicokinetics, mechanism of action and other information	Information not available					
	Information on likely routes of exposure	2-(2-BUTOXYETHOXY)ETHANOL WORKERS: inhalation; contact with the skin.					
	Delayed and immediate effects as well as chronic effects from short and long-term exposure	2-(2-BUTOXYETHOXY)ETHANOL  May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.					
	Interactive effects	Information not available					
	ACUTE	TOXICITY					
	ATE (Inhalation) of the mixture:	Not classified (no significant component)					
	ATE (Oral) of the mixture:	Not classified (no significant component)					
11.1	ATE (Dermal) of the mixture:	Not classified (no significant component)					
	2-(2-BUTOXYETHOXY)ETHANOL						
	LD50 (Dermal):	2764 mg/kg coniglio					
	LD50 (Oral):	2410 mg/kg ratto					
	1,2-PRC	PANEDIOL					
	LD50 (Dermal):	> 2000 mg/kg					
	LD50 (Oral):	> 20000 mg/kg					
	LC50 (Inhalation mists/powders):	317,042 mg/l/2h					
	Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-r	nethyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)					
	LD50 (Dermal):	> 87 mg/kg					
	LD50 (Oral):	> 53 mg/kg ratto					
	LC50 (Inhalation mists/powders):	0,31 mg/l/4h					
	Polyphosphoric a	cids, ammonium salts					
	LD50 (Oral):	4740 mg/kg					





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In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

	PENT	AERYTHRITOL			
	LD50 (Dermal):	< 10000 mg/kg coniglio			
	LD50 (Oral):	> 5, 15 mg/l/4h			
	SKIN CORROSION / IRRITATION	Does not meet the classification criteria for this hazard class			
	Respiratory or skin sensation	May produce an allergic reaction.  Contains: mixture of 5-chloro-2-2-methyl-2hisothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)			
	Respiratory sensitization	Information not available			
11.1	Skin sensitization	Information not available			
	Germ cell mutagenicity	Does not meet the classification criteria for this hazard class			
	Carcinogenicity	Does not meet the classification for this hazard class			
	Reproductive toxicity	Does not meet the classification criteria for this hazard			
	Adverse effects on sexual function and fertility	Information not available			
	Adverse effects on development of the offspring	Information not available			
	Effects on or via lactation	Information not available			
	STOT - Single exposure	Does not meet the classification criteria for this hazard class			
	Target organs	Information not available			
	Route of exposure	Information not available			
	Aspiration hazard	Does not meet the classification criteria for this hazard			
11.2	Information on other hazards	Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disrupters with human health effects under evaluation			





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#### 12. ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available Harmful to aquatic life with long lasting effects.

	Toxicity	Identification		Concentration	Species	Genus
		2-(2- BUTOXYETHOXY)ETHAN	LC50	1300 mg/l/96h	Lepomis macrochirus	Fish
		OL	EC50	> 100 mg/l/48h	Daphnia magna	Crustacea
			LC50	40613 mg/l/96h	Onchorynchus mykiss	Fish
		1,2-PROPANEDIOL	EC50	18340 mg/l/48h	Ceriodaphnia dubia	Crustacean
	Acute toxicity		NOEC	13020 mg/I 7 d,	Ceriodaphnia dubia	Crustacean
		Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one methyl-2h-isothiazol-3-one methyl-2H-isothiazol-3-one (3:1)	LC50	0,3 mg/l/96h	Danio rerio	Fish
12.1			EC50	0,16 mg/l/48h	Daphnia magna	Crustacea
			EC50	0,0379 mg/l/72h	Pseudokirchneriella subcapitata - growth rate	Algae
			NOEC	0,098 mg/I	Oncorhynchus mykiss (28 d)	Fish
			NOEC	0,004 mg/I	Daphnia magna (21d)	Crustacea
			Noec	0,032 mg/I	Pseudokirchneriella subcapitata	Algae
		Polyphosphoric acids, ammonium salts	LC50	> 500 mg/l/96h	Danio rerio	Fish
			LC50	> 100 mg/l/96h	Oryzias latipes	Fish
		PENTAERYTHRITOL	EC 50	> 1000 mg/l/72h	pseudokirchneriella subcapitata	Algae
			NOEC	1000 mg/I	daphnia magna	Crustacea



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### 12. ECOLOGICAL INFORMATION - CONTINUED

	Persistence and degradability	2-(2-BUTOXYETHOXY)ETHANOL		
12.2		Solubility in water - Rapidly degradable	1000 - 10000 mg/I	
		1,2-PROPANEDIOL		
		Solubility in water - Rapidly degradable	1000 - 10000 mg/I	
		Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl-2H- isothiazol- 3-one (3:1) :		
		NOT rapidly degradable		
		PENTAERYTHRITOL:		
		Rapidly degradable		





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### 12. ECOLOGICAL INFORMATION - CONTINUED

	Bioaccumulative potential	2-(2-BUTOXYETHOXY)ETHANOL		
		Partition coefficient:	n-octanol/water	
		1,2-PROPANEDIOL		
		Partition coefficient:	n-octanol/water : -1,07	
12.3		BCF	0,09	
		Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1) :		
		Partition coefficient:	n-octanol/water: 0,75	
		PENTAERYTHRITOL		
		Partition coefficient:	n-octanol/water: -1,7	
	Mobility in soil	2-(2-BUTOXYETHOXY)ETHANOL		
12.4		Partition coefficient:	soil/water: 10	
		1,2-PROPANEDIOL		
		Partition coefficient:	soil/water: 0,46	
12.5	Results of PBT and vPvB assessment	On the basis of available data, the product does not contain any PBT or vPvB in percentage 2 than 0, 1 %.		
12.6	Endocrine disrupting properties	Based on the available data, the product does not contain substances listed in the mai European lists of potential or suspected endocrine disruptors with environmental effects u evaluation.		
12.7	Other adverse effects	Informati	on not available	





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### 13. DISPOSAL CONSIDERATIONS

<b>13.1</b> Waste treatment methods	For disposal or recovery in EU countries , use the relevant waste code (EWC code) identified in the European Waste Catalogue. The producer of the waste must assign the EWC code according to the sector and type of process. Disposal must be carried out by an authorised waste management company.  After the producer of the waste has assigned the EWC code, the contaminated packaging must be sent for recovery or disposal in compliance with the European waste management regulations.  Disposal must be carried out by an authorised waste management company. For waste disposal or recovery in countries outside the EU, comply with the national or local regulations in force. For disposal or recovery of contaminated packaging in countries outside the EU, comply with the national or local regulations in force.  Waste transportation may be subject to regulations on transportation of hazardous goods.
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#### 14. TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1	UN number or ID number	not applicable
14.2	UN proper shipping name	not applicable
14.3	Transport hazard class(es)	not applicable
14.4	Packing group	not applicable
14.5	Environmental hazards	not applicable
14.6	Special precautions for user	not applicable
14.7	Maritime transport in bulk according to IMO instruments	Information not relevant





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#### 15. REGULATORY INFORMATION

	Safety, health and environmental regulations/legislation specific for the substance or mixture			
_	Seveso Category - Directive 2012/18/EU:	None		
	Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006			
	FORMALDEHYDE REACH Reg.: 01-2119488953-20-XXXX			
	Point: 40	Contained substance		
	1 dillt. 40	Point: 75	Point: 72	
15.1	Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors	not applicable		
	Substances in Candidate List (Art. 59 REACH)	On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0, 1 %.		
	Substances subject to authorisation (Annex XIV REACH)	None		
	Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:	None		
	Substances subject to the Rotterdam Convention:	No	ne	
	Substances subject to the Stockholm Convention:	No	one	
	Healthcare controls	Information	not available	
	voe (Directive 2004/42/EC) :	One - pack perfo	rmance coatings.	
15.2	Chemical safety assessment	-	nt has been performed for the d substances 2-(2- XY)ETHANOL	





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### **16. OTHER INFORMATION**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

	Acute Tox. 2	Acute toxicity, category 2	
	Acute Tox. 3	Acute toxicity, category 3	
	Skin Corr. 1C	Skin corrosion, category 1 C	
	Eye Irrit. 2	Eye irritation, category 2	
	Skin Sens. 1A	Skin sensitization, category 1A	
	Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category  1	
	Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1	
	H310	Fatal in contact with skin.	
	H330	Fatal if inhaled.	
16	H301	Toxic if swallowed.	
	H314	Causes severe skin burns and eye damage.	
	H319	Causes serious eye irritation.	
	H317	May cause an allergic skin reaction.	
	H400	Very toxic to aquatic life.	
	H410	Very toxic to aquatic life with long lasting effects.	
	EUH071	Corrosive to the respiratory tract.	
	EUH210	Safety data sheet available on request.	
	Use descriptor system:		
	PC 9a	Coatings and paints, thinners, paint removers	
	PROC 10	Roller application or brushing	



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	Use descriptor system:		
	PROC 11	Non industrial spraying	
	PROC 13	Treatment of articles by dipping and pouring	
	PROC 7	Industrial spraying	
	LEGEND:		
	ADR:	European Agreement concerning the carriage of Dangerous goods by Road	
	ATE:	Acute Toxicity Estimate	
	CAS:	Chemical Abstract Service Number	
	CE50:	Effective concentration (required to induce a 50% effect)	
16	CE:	Identifier in ESIS (European archive of existing substances)	
10	CLP:	Regulation (EC) 1272/2008	
	DNEL:	Derived No Effect Level	
	EmS:	Emergency Schedule	
	GHS:	Globally Harmonized System of classification and labeling of chemicals	
	IATA DGR:	International Air Transport Association Dangerous Goods Regulation	
	IC50:	Immobilization Concentration 50%	
	IMDG:	International Maritime Code for dangerous goods	
	IMO:	International Maritime Organization	
	INDEX:	Identifier in Annex VI of CLP	
	LC50:	Lethal Concentration 50%	



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al dose 50%  nal Exposure Level  ve and toxic as REACH Regulation  onmental Concentration		
ve and toxic as REACH Regulation		
onmental Concentration		
ed exposure level		
effect concentration		
n (EC) 1907/2006		
Regulation concerning the international transport of dangerou goods by train		
old Limit Value		
Concentration that should not be exceeded during any time of occupational exposure.		
average exposure limit		
rm exposure limit		
ganic Compounds		
rm exposure limit		
y Bioaccumulative as for REACH legulation		
d classes (German).		
GENERAL BIBLIOGRAPHY		
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament		
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament		



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	GENERAL BIBLIOGRAPHY
	3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
	4. Regulation (EC) 790/2009 (I Alp. CLP) of the European Parliament
	5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
	6. Regulation (EU) 618/2012 (Ill Atp. CLP) of the European Parliament
	7. Regulation (EU) 487/2013 (IV Alp. CLP) of the European
	8. Regulation (EU) 944/2013 (V Alp. CLP) of the European Parliament
	9. Regulation (EU) 605/2014 (VI Alp. CLP) of the European Parliament
	10. Regulation (EU) 2015/1221 (VII Alp. CLP) of the European Parliament
16	11. Regulation (EU) 2016/918 (VIII Alp. CLP) of the European Parliament
10	12. Regulation (EU) 2016/1179 (IX Alp. CLP)
	13. Regulation (EU) 2017/776 (X Alp. CLP)
	14. Regulation (EU) 2018/669 (XI Alp. CLP)
	15. Regulation (EU) 2019/521 (XII Alp. CLP)
	16. Delegated Regulation (UE) 2018/1480 (XIII Alp. CLP)
	17. Regulation (EU) 2019/1148
	18. Delegated Regulation (UE) 2020/217 (XIV Alp. CLP)
	19. Delegated Regulation (UE) 2020/1182 (XV Alp. CLP)
	20. Delegated Regulation (UE) 2021/643 (XVI Alp. CLP)
	21. Delegated Regulation (UE) 2021/849 (XVII Alp. CLP)



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	The Merck Inde	ex 10th Edition	
	Handling Chemical Safety		
	INRS - Fiche Toxicologique (toxicological sheet)		
	Patty - Industrial Hygiene and Toxicology		
	N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition		
	FA GESTIS website		
	ECHA website		
	Database of SOS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanita) - Italy		
16	Note for users:	The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.  The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.  Provide appointed staff with adequate training on how to	
	CALCULATION METHODS FOR CLASSIFICATION	use chemical products.  Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.  Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.  Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.	
	Changes to previous review:	The following sections were modified: 01 / 02 / 03 / 09 / 11 / 12 / 16.	
	Exposure Scenarios		
	Substance	2-(2-BUTOXYETHOXY)ETHANOL	
	Scenario Title	BUTYL DIGL YCOL	
	Revision nr.	1	
	File	EN_CAS 112-34-5_ 1.pdf	