AQUIMAX FLAMESHIELD COLOURED

HEALTH AND SAFETY DATA SHEET
According to Annex II to REACH -Regulation 2020/878 and to Annex II to UK REACH
Revised Date: 10/03/2025
Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Code	AFS3501C
	Product name	AQUIMAX FLAMESHEILD FR COLOURED BASECOAT
1.2	Relevant identified uses of the substance or mixture and uses advised against	FIRE-RETARDANT WATERBORNE SELF SEALER Water-based top coat, interior, for industrial and professional uses 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

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent
amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation
2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:
Carcinogenicity, category 2
Reproductive toxicity, category 2
Specific target organ toxicity - repeated exposure, category 2

H351 Suspected of causing cancer
H361f Suspected of damaging fertility
H373 May cause damage to organs through prolonged or repeated exposure

2.2. LABEL ELEMENTS

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal word: Warning

Hazard statements:

H351: Suspected of causing cancer.
H361f: Suspected of damaging fertility.
H373: May cause damage to organs through prolonged or repeated exposure.
EUH208 Contains: 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.

recautionary statements:

P280: Wear protective gloves/ protective clothing / eye protection / face protection.
P201: Obtain special instructions before use.
P308+P313: IF exposed or concerned: Get medical advice / attention.
CONTAINS: MELAMINE

Precautionary statements:

P280: Wear protective gloves/ protective clothing / eye protection / face protection.
P201: Obtain special instructions before use.
P308+P313: IF exposed or concerned: Get medical advice / attention.
CONTAINS: MELAMINE

VOC (Directive 2004/42/EC) :
One - pack performance coatings.
VOC given in g/litre of product in a ready-to-use condition : 4,93
LIMIT VALUE: 140,00

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%.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. MIXTURES

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

MELAMINE
INDEX 10 ≤ x < 15 **Carc. 2 H351, Repr. 2 H361f, STOT RE 2 H373**
EC: 203-615-4
CAS: 108-78-1
REACH Reg. 01-2119485947-16-0000

MELAMINE
INDEX 10 ≤ x < 15 **Carc. 2 H351, Repr. 2 H361f, STOT RE 2 H373**
EC: 203-615-4
CAS: 108-78-1
REACH Reg. 01-2119485947-16-0000

ORMALDEHYDE

INDEX 605-001-00-5 0 < x < 0,01	**Carc. 1B H350, Muta. 2 H341, Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: B, D**
EC 200-001-8	**Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 5% - < 25%, Skin Sens. 1 H317: ≥ 0,2%, Eye Dam. 1 H318: ≥ 25%, Eye Irrit. 2 H319: ≥ 5% - < 25%, STOT SE 3 H335: ≥ 5%**
CAS 50-00-0	**ATE Oral: 100 mg/kg, LD50 Dermal: 270 mg/kg, LC50 Inhalation vapours: 0,588 mg/l/4h**

REACH Reg. 01-2119488953-20-XXXX

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)

INDEX 613-167-00-5 0 < x < 0,0015	**Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071**
EC 911-418-6	**Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06% - < 0,6%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% - < 0,6%**
CAS 55965-84-9	**LD50 Oral: >53 mg/kg, LD50 Dermal: >87 mg/kg, LC50 Inhalation mists/powders: 0,31 mg/l/4h**

REACH Reg. 01-2120764691-48

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15
minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice.
Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get
medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection
It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal
protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and
on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible
contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Specific information on symptoms and effects caused by the product are unknown.
DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this
product.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

IF exposed or concerned: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. ADVICE FOR FIREFIGHTERS

General Information
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 firefighters
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 pressure compressed air breathing apparatus (BS EN 137).

SECTION 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 MATERIAL 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.

SECTION 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

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)

Information not available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Regulatory references:

BGR	БЪЛГАРИЯ	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	ČESKÁ REPUBLIKA	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	DEUTSCHLAND	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	ESPAÑA	Límites de exposición profesional para agentes químicos en España 2023
EST	EESTI	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 21.12.2022, 14]
FRA	FRANCE	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
FIN	SUOMI	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	ΕΛΛΆΔΑ	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ''σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία''»
HUN	MAGYARORSZÁG	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	HRVATSKA	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	ITALIA	Decreto Legislativo 9 Aprile 2008, n.81
LTU	LIETUVA	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	LATVIJA	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
NOR	NORGE	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo

NLD	NEDERLAND	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	PORTUGAL	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	POLSKA	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	ROMÂNIA	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVK	SLOVENSKO	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	SLOVENIJA	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	UNITED KINGDOM	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL 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.
	TLV-ACGIH	ACGIH 2023

EXPOSURE CONTROLS/PERSONAL PROTECTION

FORMALDEHYDE

THRESHOLD LIMIT VALUE

Type	Country	TWA/8H		STEL/15min		Remarks/observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1		2		
TLV	CZE	0,37	0,29637	0,74	0,59274	
AGW	DEU	0,37	0,3	0,74	0,6	
MAK	DEU	0,37	0,3	0,74	0,6	
VLA	ESP	0,37	0,3	0,74	0,6	
TLV	EST	0,6	0,3	0,5	1,2 (C)	C = 1,2 mg/m3
VLEP	FRA	0,37	0,3	0,74	0,6	
HTP	FIN	0,37	0,3	0,74	0,6	
TLV	GRC	0,37	0,3	0,74	0,6	
AK	HUN	0,37	0,3	0,74	0,6	SKIN

Type	Country	TWA/8H		STEL/15min		Remarks/observations
		mg/m3	ppm	mg/m3	ppm	
GVI/KGVI	HRV	0,37	0,3	0,74	0,6	
VLEP	ITA	0,37	0,3	0,74	0,6	
RD	LTU	0,37	0,3	0,74	0,6	
RV	LVA	0,5				
TLV	NOR	0,6	0,5	1,2 (C)	1 (C)	
TGG	NLD	0,15		0,5		
VLE	PRT	0,37	0,3	0,74	0,6	
NDS/NDSCh	POL	0,37		0,74		SKIN
TLV	ROU	0,37	0,3	0,74	0,6	
NPEL	SVK	0,37	0,3	0,74	0,6	
MV	SVN	0,62	0,5	0,72	0,5	SKIN
WEL	GBR	2,5	2	2,5	2	
OEL	EU	0,37	0.3	0,74	0,6	
TLV-ACGIH			0,1		0,3	

PREDICTED NO-EFFECT CONCENTRATION - PNEC

Normal value in fresh water	0,44	mg/l
Normal value in marine water	0,44	mg/l
Normal value for fresh water sediment	2,3	mg/kg
Normal value for marine water sediment	2,3	mg/kg
Normal value for water, intermittent release	4,44	mg/l
Normal value of STP microorganisms	0,19	mg/l
Normal value for the terrestrial compartment	0,2	mg/kg

HEALTH - DERIVED NO-EFFECT LEVEL - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,1 mg/kg/d				
Inhalation			0,1 mg/m3	3,2 mg/m3	0,75 mg/kg		0,375 mg/kg	9 mg/m3
Skin				102 mg/kd/d			0,375 mg/cm2	240 mg/kg/d

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Revised Date: 10/03/2025
Version: 1

MIXTURE OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE
METHYL- 2H- ISOTHIAZOL- 3-ONE (3:1)

Type	Country	TWA/8H		STEL/15min		Remarks/observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,2				
MV	DEU	0,05				

PREDICTED NO-EFFECT CONCENTRATION - PNEC

Normal value in fresh water	0,00339	mg/l
Normal value in marine water	0,00339	mg/l
Normal value for fresh water sediment	0,027	mg/kg
Normal value for marine water sediment	0,027	mg/kg
Normal value for water, intermittent release	0,00339	mg/l
Normal value of STP microorganisms	0,23	mg/l
Normal value for the terrestrial compartment	0,01	mg/kg

HEALTH - DERIVED NO-EFFECT LEVEL - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0,11 mg/kg/bw/d		0,09 mg/kg bw/d				
Inhalation	0,02 mg/m3		0,04 mg/m3		0,04 mg/m3		0,02 mg/m3	

MELAMINE

PREDICTED NO-EFFECT CONCENTRATION - PNEC

Normal value in fresh water	0,51	mg/l
Normal value in marine water	0,051	mg/l
Normal value for fresh water sediment	2,524	mg/kg
Normal value for marine water sediment	0,252	mg/kg
Normal value for water, intermittent release	2	mg/l
Normal value of STP microorganisms	200	mg/l
Normal value for the terrestrial compartment	0,206	mg/kg

HEALTH - DERIVED NO-EFFECT LEVEL - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,42 mg/kg bw/d		117		11,8
Inhalation				1,5 mg/m3		82,3 mg/m3		8,3 mg/m3
Skin				4,2 mg/kg bw/d		117 mg/kg bw/d		11,8 mg/kg bw/d

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. EXPOSURE CONTROLS

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.

SKIN PROTECTION

Wear work clothes and safety footwear that complies with EN ISO 20344

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: Determination of the flash point may be NA (not applicable), the product being non flammable.

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value Information	Information
Appearance	viscous liquid	
Colour	whitish	
Odour	almost odourless	
Melting point / freezing point	not available	
Initial boiling point	> 65 °C	
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	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	1,238	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. OTHER INFORMATION

9.2.1. INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

Information not available

9.2.2. OTHER SAFETY CHARACTERISTICS

Total solids (250°C / 482°F)	55,14 %	
VOC (Directive 2004/42/EC) :	0,40 % - 4,93	g/litre
VOC (volatile carbon)	0,14 % - 1,71	g/litre
Explosive properties	not applicable	
Oxidising properties	not applicable	

SECTION 10. STABILITY AND REACTIVITY

10.1. REACTIVITY

There are no particular risks of reaction with other substances in normal conditions of use.

FORMALDEHYDE
Decomposes under the effect of heat.
Acqueous solutions are stabilised with methanol but tend to polymerise over time.

10.2. CHEMICAL STABILITY

The product is stable in normal conditions of use and storage.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No hazardous reactions are foreseeable in normal conditions of use and storage
FORMALDEHYDE
Risk of explosion on contact with: nitromethane,nitrogen dioxide,hydrogen peroxide,phenoles,performic acid,nitric acid.May polymerise
on contact with: strong oxidising agents,alkalis.May react dangerously with: hydrochloric acid,magnesium carbonate,sodium hydroxide,perchloric acid,aniline.Forms explosive mixtures with: air.

10.4. CONDITIONS TO AVOID

None in particular. However the usual precautions used for chemical products should be respected.
FORMALDEHYDE
Avoid exposure to: light,sources of heat,naked flames.

10.5. INCOMPATIBLE MATERIALS

FORMALDEHYDE
Incompatible with: acids,alkalis,ammonia,tannin,strong oxidants,phenoles,copper salts,silver,iron.
10.6. Hazardous decomposition products
FORMALDEHYDE
When heated to decomposition releases: methanol,carbon monoxide

SECTION 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.

11.1. 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
Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Information not available

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)
ATE (Dermal) of the mixture: Not classified (no significant component)

FORMALDEHYDE

LD50 (Dermal): 270 mg/kg
LD50 (Oral): 460 mg/kg
LC50 (Inhalation vapours): 0,588 mg/l/4h

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)

LD50 (Dermal): > 87 mg/kg
LD50 (Oral): > 53 mg/kg
LC50 (Inhalation mists/powders): 0,31 mg/l/4h

Polyphosphoric acids, ammonium salts

LD50 (Oral): 4740 mg/kg

MELAMINE

LD50 (Oral): > 3000 mg/kg
LC50 (Inhalation vapours): 0,58 mg/l/4h

SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION
Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION
May produce an allergic reaction.
Contains:
Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class

CARCINOGENICITY
Suspected of causing cancer

REPRODUCTIVE TOXICITY
Suspected of damaging fertility

STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE
May cause damage to organs

ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

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 disruptors with human health effects under evaluation.

SECTION 12. ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. TOXICITY

FORMALDEHYDE
LC50 - for Fish: 6,7 mg/l/96h Morone saxatilis
EC50 - for Crustacea: 5,8 mg/l/48h Daphnia pulex
EC50 - for Algae / Aquatic Plants: 4,89 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Fish: > 48 mg/l Oryzias latipes (28d)
Chronic NOEC for Crustacea: > 6,4 mg/l Daphnia magna (21d)
Chronic NOEC for Algae / Aquatic Plants: 0,018 mg/l Triticum aestivm (40 d)

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl- 2H- isothiazol- 3-one (3:1)

LC50 - for Fish: 0,3 mg/l/96h Danio rerio
EC50 - for Crustacea: 0,16 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants: 0,0379 mg/l/72h Pseudokirchneriella subcapitata - growth rate
Chronic NOEC for Fish: 0,098 mg/l Oncorhynchus mykiss (28 d)
Chronic NOEC for Crustacea: 0,004 mg/l Daphnia magna (21 d)
Chronic NOEC for Algae / Aquatic Plants: 0,032 mg/l Pseudokirchneriella subcapitata

Polyphosphoric acids, ammonium salts
LC50 - for Fish: > 500 mg/l/96h Danio rerio

MELAMINE

LC50 - for Fish: > 3000 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea: 200 mg/l/48h Daphnia
Chronic NOEC for Fish: > 5,1 mg/l 36d
Chronic NOEC for Crustacea: > 11 mg/l 21d

12.2. PERSISTENCE AND DEGRADABILITY

FORMALDEHYDE

Solubility in water: 55000 mg/l
Rapidly degradable: 99% (28 d)

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

12.3. BIOACCUMULATIVE POTENTIAL

FORMALDEHYDE

Partition coefficient: n-octanol/water: 0,35
BCF: < 1

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

12.4. MOBILITY IN SOIL

Information not available

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 ≥ than 0,1%.

12.6. ENDOCRINE DISRUPTING PROPERTIES

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. OTHER ADVERSE EFFECTS
Information not available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. 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.

SECTION 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

SECTION 15. REGULATORY INFORMATION

Only for uses exempt from EU DIRECTIVE 2004/42/CE.

15.1. 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

Product
Point 3 - 40
Contained substance
Point 75

Point 72-77 FORMALDEHYDE
REACH Reg.: 01-2119488953-20-XXXX

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
MELAMINE
REACH Reg.: 01-2119485947-16-0000

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:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC) :

One - pack performance coatings.

15.2. CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. OTHER INFORMATION

Carc. 1B Carcinogenicity, category 1B
Carc. 2 Carcinogenicity, category 2
Muta. 2 Germ cell mutagenicity, category 2
Repr. 2 Reproductive toxicity, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
STOT RE 2 Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B Skin corrosion, category 1B
Skin Corr. 1C Skin corrosion, category 1C
Skin Corr. 1 Skin corrosion, category 1
Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
STOT SE 3 Specific target organ toxicity - single exposure, category 3
Skin Sens. 1 Skin sensitization, category 1
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
H350 May cause cancer.
H351 Suspected of causing cancer.
H341 Suspected of causing genetic defects.
H361f Suspected of damaging fertility.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H373 May cause damage to organs through prolonged or repeated exposure.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory 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.

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)
- CE: Identifier in ESIS (European archive of existing substances)
- 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%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)

13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 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
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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 use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

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.

10. STABILITY AND REACTIVITY

PENTAERYTHRITOL - Incompatible materials: strong oxidising 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-BUTOXYETHOXY)ETHANOL Forms peroxides with: air. 1,2-PROPANEDIOL - Hygroscopic. Stable in normal conditions of use and storage.		
10.2	Chemical stability	The product is stable in normal conditions of use and storage.
2-(2-BUTOXYETHOXY)ETHANOL: Stable in normal conditions of use and storage. Avoid exposure to: air, heat, light.		
10.3	Possibility of hazardous reactions	No hazardous reactions are foreseeable in normal conditions 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)ETHANOL: Avoid exposure to: air.		
10.5	Incompatible materials	
	2-(2-BUTOXYETHOXY)ETHANOL : Incompatible with: oxidising substances. strong acids, alkaline metals.	
10.6	Hazardous decomposition products	
	2-(2-BUTOXYETHOXY)ETHANOL: May develop: hydrogen.	
	1,2-PROPANEDIOL: May develop: carbon oxides.	

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.

11.1	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)
	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-PROPANEDIOL	
	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-methyl-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 acids, ammonium salts	
	LD50 (Oral):	4740 mg/kg

11. TOXICOLOGICAL INFORMATION CONTINIUED

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.

11.1	PENTAERYTHRITOL	
	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
	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

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.

12.1	Toxicity	**Identification**		**Concentration**	**Species**	**Genus**
	Acute toxicity	2-(2-BUTOXYETHOXY)ETHANOL	LC50	1300 mg/l/96h	Lepomis macrochirus	Fish
			EC50	> 100 mg/l/48h	Daphnia magna	Crustacea
		1,2-PROPANEDIOL	LC50	40613 mg/l/96h	Onchorynchus mykiss	Fish
			EC50	18340 mg/l/48h	Ceriodaphnia dubia	Crustacean
			NOEC	13020 mg/I 7 d,	Ceriodaphnia dubia	Crustacean
		Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one methyl-2H- isothiazol- 3-one (3:1)	LC50	0,3 mg/l/96h	Danio rerio	Fish
			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
		PENTAERYTHRITOL	LC50	> 100 mg/l/96h	Oryzias latipes	Fish
			EC 50	> 1000 mg/l/72h	pseudokirchneriella subcapitata	Algae
			NOEC	1000 mg/I	daphnia magna	Crustacea

12. ECOLOGICAL INFORMATION - CONTINUED

12.2	Persistence and degradability	2-(2-BUTOXYETHOXY)ETHANOL	
		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	

12. ECOLOGICAL INFORMATION - CONTINUED

12.3	Bioaccumulative potential	2-(2-BUTOXYETHOXY)ETHANOL	
		Partition coefficient:	n-octanol/water
		1,2-PROPANEDIOL	
		Partition coefficient:	n-octanol/water : -1,07
		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
12.4	Mobility in soil	2-(2-BUTOXYETHOXY)ETHANOL	
		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 main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.	
12.7	Other adverse effects	Information not available	

13. DISPOSAL CONSIDERATIONS

13.1	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.

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

15. REGULATORY INFORMATION

<table>
<tr><td rowspan="12">15.1</td><td colspan="3">Safety, health and environmental regulations/legislation specific for the substance or mixture</td></tr>
<tr><td>Seveso Category - Directive 2012/18/EU:</td><td colspan="2">None</td></tr>
<tr><td colspan="3">Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006</td></tr>
<tr><td colspan="3">FORMALDEHYDE
REACH Reg.: 01-2119488953-20-XXXX</td></tr>
<tr><td rowspan="2">Point: 40</td><td colspan="2">Contained substance</td></tr>
<tr><td>Point: 75</td><td>Point: 72</td></tr>
<tr><td>Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors</td><td colspan="2">not applicable</td></tr>
<tr><td>Substances in Candidate List (Art. 59 REACH)</td><td colspan="2">On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0, 1 %.</td></tr>
<tr><td>Substances subject to authorisation (Annex XIV REACH)</td><td colspan="2">None</td></tr>
<tr><td>Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:</td><td colspan="2">None</td></tr>
<tr><td>Substances subject to the Rotterdam Convention:</td><td colspan="2">None</td></tr>
<tr><td>Substances subject to the Stockholm Convention:</td><td colspan="2">None</td></tr>
<tr><td>Healthcare controls</td><td colspan="2">Information not available</td></tr>
<tr><td>voe (Directive 2004/42/EC) :</td><td colspan="2">One - pack performance coatings.</td></tr>
<tr><td>15.2</td><td>Chemical safety assessment</td><td colspan="2">A chemical safety assessment has been performed for the following contained substances 2-(2-BUTOXYETHOXY)ETHANOL</td></tr>
</table>

16. OTHER INFORMATION

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

16	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.
	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

16. OTHER INFORMATION CONTINUED

16	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)
	CE:	Identifier in ESIS (European archive of existing substances)
	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%

16. OTHER INFORMATION CONTINUED

16	LEGEND	
	LD50	Lethal dose 50%
	OEL:	Occupational Exposure Level
	PBT:	Persistent bioaccumulative and toxic as REACH Regulation
	PEC:	Predicted environmental Concentration
	PEL:	Predicted exposure level
	PNEC:	Predicted no effect concentration
	REACH:	Regulation (EC) 1907/2006
	RID:	Regulation concerning the international transport of dangerous goods by train
	TLV:	Threshold Limit Value
	TLV CEILING:	Concentration that should not be exceeded during any time of occupational exposure.
	TWA:	Time-weighted average exposure limit
	TWA STEL:	Short-term exposure limit
	VOC:	Volatile organic Compounds
	TWA STEL:	Short-term exposure limit
	vPvB:	Very Persistent and very Bioaccumulative as for REACH Regulation
	WGK:	Water hazard classes (German).
	GENERAL BIBLIOGRAPHY	
	1. Regulation (EC) 1907/2006 (REACH) of the European Parliament	
	2. Regulation (EC) 1272/2008 (CLP) of the European Parliament	

16. OTHER INFORMATION CONTINUED

16	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
	11. Regulation (EU) 2016/918 (VIII Alp. CLP) of the European Parliament
	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)

16. OTHER INFORMATION CONTINUED

16	The Merck Index. - 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	
	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 use chemical products.
	CALCULATION METHODS FOR CLASSIFICATION	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