Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: **VHP2960PG10**
Product name **VERNICE ALL'ACQUA PER PARQUETS 2960 PLUS G10 - OA1230PG10**

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

Intended use **PARQUET WATER-BASED PAINT**

Identified Uses	Industrial	Professional	Consumer
Product for painting	✓	✓	-

1.3. Details of the supplier of the safety data sheet

Name **KEMICHAL SRL**
Full address **Via Dell'Artigianato, 2**
District and Country **35010 Trebaseleghe (PD)**
Italia
Tel. +390499385648
Fax +390499385070

e-mail address of the competent person responsible for the Safety Data Sheet **laboratorio@kemichal.it**

1.4. Emergency telephone number

For urgent inquiries refer to **National Poisons Information Service DIAL 111**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the 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.

Hazard classification and indication: --

2.2. Label elements

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

Hazard pictograms: --

Signal words: --

Hazard statements:
EUH210 Safety data sheet available on request.
EUH208 Contains: 5-cloro-2-metil-2H-isotiazol-3-one
1,2-BENZISOTIAZOL-3(2H)-ONE
May produce an allergic reaction.

Precautionary statements: --

VOC (Directive 2004/42/EC) :
Interior / exterior trim varnishes and woodstains, including opaque woodstains.
VOC given in g/litre of product in a ready-to-use condition : 94,90
Limit value: 130,00
- Catalysed with : 10,00 % INDURITORE 2399 M - C390P

SECTION 2. Hazards identification ... / >>

Product with added biocide active ingredient C (M) IT / MIT (3: 1) (CAS: 55965-84-9) for preservation during storage (PT06) - Avoid skin exposure and release into the environment

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

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
2-(2-BUTOXYETHOXY)ETHANOL			
INDEX	*603-096-00-8*	3,9 ≤ x < 4,1	**Eye Irrit. 2 H319**
EC	*203-961-6*		
CAS	*112-34-5*		
REACH Reg.	*01-2119475104-44*		
BUTILGLICOLE			
INDEX	*603-014-00-0*	0,8 ≤ x < 0,9	**Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315**
EC	*203-905-0*		**LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h**
CAS	*111-76-2*		
REACH Reg.	*01-2119475108-36*		
1,2-BENZISOTIAZOL-3(2H)-ONE			
INDEX	*613-088-00-6*	0,008 ≤ x < 0,009	**Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1**
EC	*220-120-9*		**Skin Sens. 1 H317: ≥ 0,05%**
CAS	*2634-33-5*		**STA Oral: 500 mg/kg**
5-cloro-2-metil-2H-isotiazol-3-one			
INDEX	*613-167-00-5*	0 ≤ x < 0,001	**Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071**
EC			**Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%**
CAS	*55965-84-9*		**LD50 Oral: 66 mg/kg, LD50 Dermal: >141 mg/kg, STA Inhalation mists/powders: 0,051 mg/l, STA Inhalation vapours: 0,501 mg/l**
ACRYLIC ACID			
INDEX	*607-061-00-8*	0 ≤ x < 0,001	**Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1A H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=1, Classification note according to Annex VI to the CLP Regulation: D**
EC	*201-177-9*		**STOT SE 3 H335: ≥ 1%**
CAS	*79-10-7*		**STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l**
2-fenilpropene; alfa-metilstirene			
INDEX		0 ≤ x < 0,001	**Flam. Liq. 3 H226, Eye Irrit. 2 H319, STOT SE 3 H335, Aquatic Chronic 2 H411**
EC	*202-705-0*		
CAS	*98-83-9*		
REACH Reg.	*01-2119472426-35-XXXX*		

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

EYES: 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.

SECTION 4. First aid measures ... / >>

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
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.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

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 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 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

SECTION 7. Handling and storage ... / >>

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.)
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
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''»
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
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
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
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 2022
	RCP TLV	ACGIH TLVs and BEIs – Appendix H

2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	67,5	10	101,2	15	
VLA	ESP	67,5	10	101,2	15	
TLV	GRC	67,5	10	101,2	15	
VLEP	ITA	67,5	10	101,2	15	
RD	LTU	67,5	10	101,2	15	
VLE	PRT	67,5	10	101,2	15	
NDS/NDSCh	POL	67		100		
TLV	ROU	67,5	10	101,2	15	
ESD	TUR	67,5	10	101,2	15	
WEL	GBR	67,5	10	101,2	15	
OEL	EU	67,5	10	101,2	15	
TLV-ACGIH		66	10			INHAL

SECTION 8. Exposure controls/personal protection ... / >>

2-DIMETHYLAMINOETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	7,4	2	22	6	

ACRYLIC ACID

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	29	10	59	20		STEL: 1'
TLV	GRC	29	10	59	20		STEL: 1'
VLEP	ITA	29	10	59	20	SKIN	STEL: 1 min
RD	LTU	29	10	59 (C)	20 (C)		
VLE	PRT	29	10	59	20		STEL: 1 min
NDS/NDSCh	POL	10		29,5		SKIN	
TLV	ROU	29	10	59	20		STEL: 1'
WEL	GBR	29	10	59	20		STEL: 1-minute
OEL	EU	29	10	59	20		STEL: 1'
TLV-ACGIH		6	2			SKIN	

2.6DI-TERZ-BUTIL-P-CRESOLO

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00019	mg/l
Normal value in marine water	0,00001 99	mg/l
Normal value for fresh water sediment	0,0996	mg/kg
Normal value for marine water sediment	0,00996	mg/kg
Normal value for water, intermittent release	0,00199	mg/l
Normal value of STP microorganisms	0,17	mg/l
Normal value for the food chain (secondary poisoning)	8,33	mg/kg
Normal value for the terrestrial compartment	0,04769	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				0,25 mg/kg bw/d				
Inhalation				0,86 mg/m3				3,5 mg/m3
Skin				0,25 mg/kg bw/d				0,5 mg/kg bw/d

BUTILCARBAMMATO DI 3-IODIO-2-PROPINILE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
RCP TLV		0,25				

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0005	mg/l
Normal value in marine water	0,00004 6	mg/l
Normal value for fresh water sediment	0,017	mg/kg/d
Normal value for marine water sediment	0,0016	mg/kg/d
Normal value for water, intermittent release	0,00053	mg/l
Normal value of STP microorganisms	0,44	mg/l
Normal value for the terrestrial compartment	0,005	mg/kg/d

SECTION 8. Exposure controls/personal protection ... / >>

ottametilciclotetrasilossano

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0015	mg/l
Normal value in marine water	0,00015	mg/l
Normal value for fresh water sediment	3	mg/kg/d
Normal value for marine water sediment	0,3	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	41	mg/kg
Normal value for the terrestrial compartment	0,54	mg/kg/d

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		3,7 mg/kg bw/d		3,7 mg/kg bw/d				
Inhalation	13 mg/m3	13 mg/m3	13 mg/m3	13 mg/m3	73 mg/m3	73 mg/m3	73 mg/m3	73 mg/m3

BUTILGLICOLE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH			20			SKIN

2-ottil-2H-isotiazol-3-one

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0022	mg/l
Normal value in marine water	0,00022	mg/l
Normal value for fresh water sediment	0,0475	mg/kg
Normal value for marine water sediment	0,00475	mg/kg
Normal value for water, intermittent release	122	mg/l
Normal value for the terrestrial compartment	0,0082	mg/kg

decametilciclopentasilossano

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0012	mg/l
Normal value in marine water	0,00012	mg/l
Normal value for fresh water sediment	11	mg/kg/d
Normal value for marine water sediment	1,1	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	16	mg/kg
Normal value for the terrestrial compartment	1,27	mg/kg/d

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
Inhalation	4,3 mg/m3	17,3 mg/m3	4,3 mg/m3	17,3 mg/m3	24,2 mg/m3	97,3 mg/m3	24,2 mg/m3	97,3 mg/m3

SECTION 8. Exposure controls/personal protection ... / >>

Dodecamethylcyclohexasiloxane

Predicted no-effect concentration - PNEC

Normal value for fresh water sediment	13	mg/kg/d
Normal value for marine water sediment	1,3	mg/kg/d
Normal value of STP microorganisms	1	mg/l
Normal value for the food chain (secondary poisoning)	66,7	mg/kg
Normal value for the terrestrial compartment	3,77	mg/kg/d

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						1,7 mg/kg bw/d		1,7 mg/kg bw/d
Inhalation	1,5 mg/m3		0,3 mg/m3	2,7 mg/m3	6,1 mg/m3		1,22 mg/m3	11 mg/m3

POLYPROPYLENE OXIDE MONOALLYL METHYL ETHER

Predicted no-effect concentration - PNEC

Normal value for fresh water sediment	2,826	mg/kg
Normal value for marine water sediment	0,282	mg/kg
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	3,336	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				1,7 mg/kg bw/d		1,7 mg/kg bw/d		
Inhalation	1,5 mg/m3		0,3 mg/m3	2,7 mg/m3		6,1 mg/m3	1,22 mg/m3	11 mg/m3

2-fenilpropene; alfa-metilstirene

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	246	50	492	100	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,008	mg/l
Normal value in marine water	0,0008	mg/l
Normal value for fresh water sediment	0,583	mg/kg/d
Normal value for marine water sediment	0,0583	mg/kg/d
Normal value for marine water, intermittent release	0,01645	mg/l
Normal value of STP microorganisms	66,15	mg/l
Normal value for the terrestrial compartment	0,112	mg/kg/d

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
Inhalation				4,83 mg/m3	492 mg/m3			246 mg/m3
Skin				1,4 mg/kg bw/d			104,65	2,8 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

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
HAND PROTECTION
Protect hands with category III work gloves.

SECTION 8. Exposure controls/personal protection ... / >>

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).
RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.
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

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	milky	
Odour	odourless	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	67 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	7-9	Temperature: 20 °C
Kinematic viscosity	146 mm2/s	Temperature: 20 °C
Dynamic viscosity	150 mPas	Method:Brookfield (R3/RPM50) Temperature: 20 °C
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,03 kg/l	Temperature: 20 °C
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)	32,13 %			
VOC (Directive 2004/42/EC) :	5,12 %	-	52,71	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

ACRYLIC ACID
Keep away from: oxidising agents.Maintaining a temperature of less than 13°C/55°F.May polymerise if exposed to: heat.

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.

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.
ACRYLIC ACID
Risk of explosion on contact with: oxidising agents,oxygen,peroxides.May polymerise on contact with: alkaline hydroxides,amines,ammonia,sulphuric acid.Forms explosive mixtures with: hot air.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

2-(2-BUTOXYETHOXY)ETHANOL
Avoid exposure to: air.
ACRYLIC ACID
Avoid exposure to: light,sources of heat,naked flames.Avoid contact with: oxygen.

10.5. Incompatible materials

2-(2-BUTOXYETHOXY)ETHANOL
Incompatible with: oxidising substances,strong acids,alkaline metals.
ACRYLIC ACID
Incompatible with: peroxides,oxidising substances,strong acids,strong bases,amines,iron salts,oleum,chlorosulphuric acid.

10.6. Hazardous decomposition products

2-(2-BUTOXYETHOXY)ETHANOL
May develop: hydrogen.

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

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

SECTION 11. Toxicological information ... / >>

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
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):	2700 mg/kg Rabbit
LD50 (Oral):	3384 mg/kg Rat

ACRYLIC ACID

LD50 (Dermal):	> 2000 mg/kg Rabbit
STA (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	151 mg/kg Rat
LC50 (Inhalation vapours):	> 5,1 mg/l/4h Rat

5-cloro-2-metil-2H-isotiazol-3-one

LD50 (Dermal):	> 141 mg/kg ratto-rat (OECD 402)
LD50 (Oral):	66 mg/kg ratto- rat (OECD 401)

BUTILGLICOLE

LD50 (Oral):	1200 mg/kg Guinea pig
LC50 (Inhalation vapours):	3 mg/l/4h rat

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:
5-cloro-2-metil-2H-isotiazol-3-one
1,2-BENZISOTIAZOL-3(2H)-ONE

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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

2-(2-BUTOXYETHOXY)ETHANOL	
LC50 - for Fish	> 100 mg/l/96h
EC50 - for Crustacea	> 100 mg/l/48h
ACRYLIC ACID	
LC50 - for Fish	315 mg/l/96h Leuciscus idus melanotus
EC50 - for Crustacea	765 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	118 mg/l/72h Chlorococcales
5-cloro-2-metil-2H-isotiazol-3-one	
LC50 - for Fish	0,32 mg/l/96h Pesci
EC50 - for Crustacea	0,12 mg/l/48h Dafnie
EC50 - for Algae / Aquatic Plants	0,048 mg/l/72h
Chronic NOEC for Fish	0,098 mg/l
Chronic NOEC for Crustacea	0,004 mg/l Dafnie
Chronic NOEC for Algae / Aquatic Plants	0,0012 mg/l
BUTILGLICOLE	
LC50 - for Fish	1474 mg/l/96h
EC50 - for Crustacea	1550 mg/l/48h
EC50 - for Algae / Aquatic Plants	1840 mg/l/72h

12.2. Persistence and degradability

2-(2-BUTOXYETHOXY)ETHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
ACRYLIC ACID	
Solubility in water	1000000 mg/l
Rapidly degradable	
BUTILGLICOLE	
Solubility in water	1000-10000 mg/l
Rapidly degradable	

12.3. Bioaccumulative potential

2-(2-BUTOXYETHOXY)ETHANOL	
Partition coefficient: n-octanol/water	1
ACRYLIC ACID	
Partition coefficient: n-octanol/water	0,46
BCF	0,491
BUTILGLICOLE	
Partition coefficient: n-octanol/water	0,81

12.4. Mobility in soil

ACRYLIC ACID	
Partition coefficient: soil/water	0,78

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%.

SECTION 12. Ecological information ... / >>

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

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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

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 40
Contained substance

SECTION 15. Regulatory information ... / >>

Point	75	
Point	55	2-(2-BUTOXYETHOXY)ETHANOL REACH Reg.: 01-2119475104-44

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:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Information not available

VOC (Directive 2004/42/EC) :
Interior / exterior trim varnishes and woodstains, including opaque woodstains.

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

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

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1C	Skin corrosion, category 1C
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
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
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.

SECTION 16. Other information ... / >>

H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.

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 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
- 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
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)

- 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

SECTION 16. Other information ... / >>

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:
02 / 03 / 09 / 11 / 15 / 16.