

SAFETY DATA SHEET

LINK GLUE V20

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

1.1 Product identifier	
Product name	LINK GLUE V20
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Intended use	VINYL ADHESIVE
1.3 Details of the supplier of the safety data sheet.	
Name	LINK INDUSTRIES SPA
Full address.	Ponte Morosini 49
District and Country.	16126 - Genova - ITALIA Tel. +39 010.2546901 Fax. +39 010.2546999
e-mail address of the competent person responsible for the Safety Data Sheet	tecnico.isolamento@linkindustries.com
1.4 Emergency telephone number.	
For urgent inquiries refer to	CAV Centro Nazionale di Informazione Tossicologica Pavia 0382-24444

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 by 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 Elements of the label	
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: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

		2-methyl-2H-isothiazol-3-one 1,2-BENZISOTHIAZOL-3(2H)-ONE may produce an allergic reaction
Precautionary statements:		-

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3 Other hazards.
On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.
The product does not contain substances with endocrine disrupting oproperties in concentration grater than 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)
KAOLIN		
INDEX	$9 \leq x < 10,5$	
EC	310-194-1	
CAS	1332-58-7	
Reaction products of phosphoryl trichloride and methyloxirane		
INDEX	$8 \leq x < 9$	Acute Tox. 4 H302, Aquatic Chronic 3 H412
EC	807-935-0	LD50 Oral: 632 mg/kg
CAS	1244733-77-4	
REACH Reg.	01-2119486772-26	
TITANIUM DIOXIDE		
INDEX	$3,5 \leq x < 4$	EUH210, EUH212
EC	236-675-5	
CAS	13463-67-7	
REACH Reg.	01-2119489379-17-0103	
1,2-BENZISOTHIAZOL-3(2H)-ONE		
INDEX	$0 \leq x < 0,05$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	220-120-9	Skin Sens. 1 H317: $\geq 0,05\%$
CAS	2634-33-5	LD50 Oral: 1193 mg/kg
REACH Reg.	01-2120761540-60	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)		
INDEX	$0 \leq x < 0,0015$	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	611-341-5	Skin Corr. 1C H314: $\geq 0,6\%$, Skin Irrit. 2 H315: $\geq 0,06\%$, Skin Sens. 1A H317: $\geq 0,0015\%$, Eye Dam. 1 H318: $\geq 0,6\%$, Eye Irrit. 2 H319: $\geq 0,06\%$
CAS	55965-84-9	LD50 Oral: 53 mg/kg, LD50 Dermal: 50 mg/kg, LC50 Inhalation vapours: 1,23 mg/l/4h, LC50 Inhalation mists/powders: 0,33 mg/l/4h
2-methyl-2H-isothiazol-3-one		
INDEX	$0 \leq x < 0,0015$	Acute Tox. 2 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1, EUH071
EC	220-239-6	Skin Sens. 1 H317: $\geq 0,0015\%$
CAS	2682-20-4	LD50 Oral: 183 mg/kg, LD50 Dermal: 218 mg/kg, LC50 Inhalation vapours: 0,53 mg/l/4h, LC50 Inhalation mists/powders: 0,11 mg/l/4h
REACH Reg.	01-2120764690-50	

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.
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.
Protective equipment	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. If the product is flammable, use explosion-proof equipment. 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurized. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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.

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP EST	España Eesti	Límites de exposición profesional para agentes químicos en España 2021 Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA GRC	France Ελλάδα	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS 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 μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
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
GBR	United Kingdom TLV-ACGIH	EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2022

Kaolin

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
VLA	ESP	2				RESP
GVI/KGVI	HRV	2				RESP
TGG	NLD	10				
NDS/NDSch	POL	10				INHAL
WEL	GBR	2				RESP
TLV-ACGIH		2				RESP

Reaction products of phosphoryl trichloride and methyloxirane

Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,32	mg/l			
Normal value in marine water				0,032	mg/l			
Normal value for fresh water sediment				11,5	mg/kg/d			
Normal value for marine water sediment				1,15	mg/kg/d			
Normal value for water, intermittent release				0,51	mg/l			
Normal value of STP microorganisms				19,1	mg/l			
Normal value for the terrestrial compartment				0,34	mg/kg/d			
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		2 mg/kg bw/d		0,52 mg/kg bw/d				
Inhalation		5,6 mg/m3		1,45 mg/m3		22,6 mg/m3		8,2 mg/m3
Skin				1,04 mg/kg bw/d				2,91 mg/kg bw/d

Titanium Dioxide

Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	10						
TLV	EST	5						
VLEP	FRA	10						
TLV	GRC			10				
GVI/KGVI	HRV	10				INHAL		
GVI/KGVI	HRV	4				RESP		
TLV	NOR	5						
NDS/NDSch	POL	10				INHAL		
TLV	ROU	10		15				
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		2,5				RESP		
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,184	mg/l			
Normal value in marine water				0,0184	mg/l			
Normal value for fresh water sediment				1000	mg/kg/d			
Normal value for marine water sediment				100	mg/kg/d			
Normal value of STP microorganisms				100	mg/l			
Normal value for the terrestrial compartment				100	mg/kg/d			
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				700 mg/kg bw/d				
Inhalation						10 mg/m3		

Reaction mass of: 5-chloro-2methyl-4-isothiazolin-3-one [EC n°247-500-7] and 2-methyl-2H-isothiazol-3-one [EC n° 220-239-6]

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 of STP microorganisms					0,23	mg/l		
Normal value for the terrestrial compartment					0,01	mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0,11 mg/kg/d						0,09 mg/kg/d
Inhalation	0,04 mg/m3		0,02 mg/m3		0,04 mg/m3		0,02 mg/m3	

2-octyl-2H-isothiazol-3-one

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,05		0,1		INHAL
AGW	DEU	0,05		0,1		SKIN
MAK	DEU	0,05		0,1		INHAL
MAK	DEU	0,05		0,1		SKIN

Legend:

(C) = CELING; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; THORA = Thoracic Fraction ; VND = hazard identified but no DNEL/PNEC available; NEA =no exposure expected; NPI = no hazard identified

8.2 Control parameters

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. When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION	Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: 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 Directive 89/686/EEC 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).
	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 B filter whose class (1, 2 or 3) must be chosen

RESPIRATORY PROTECTION	<p>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.</p> <p>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.</p> <p>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.</p>
ENVIRONMENTAL EXPOSURE CONTROLS	<p>The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.</p>

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	dense liquid	
Colour	white	
Odour	typical	
Odour threshold	not determined	
Melting point / freezing point	0 °C	Substance:WATER
Initial boiling point	100 °C	Substance:WATER
Boiling range	not determined	
Flammability	not flammable	
Lower explosive limit	not determined	
Upper explosive limit	not determined	
Flash point	> 60 °C	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Self-accelerating decomposition temperature (SADT)	not determined	
pH	8	
Kinematic viscosity	>20,5 mm ² /sec (40°C)	
Dynamic viscosity	200.000 mPa*s	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not determined	
Vapour pressure	not available	
Density and/or relative density	1,2 g/l	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2 Other information	
Total solids (250°C / 482°F)	57,00 %
VOC (Directive 2010/75/CE)	19,90%-0,24g/litro

SECTION 10. Stability and reactivity

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

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.

10.4 Conditions to avoid
None in particular. However the usual precautions used for chemical products should be respected.

10.5 Incompatible materials
Information not available.

10.6 Hazardous decomposition products.
Information not available

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 toxicological effects	
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: >2000 mg/kg
 ATE (Dermal) of the mixture: Not classified (no significant component)

KAOLIN

LD50 (Dermal): > 2000 mg/kg OECD Guideline 402
 LD50 (Oral): > 2000 mg/kg OECD Guideline 420
 LC50 (Inhalation mists/powders): > 5,07 mg/l/4h OECD Guideline 436

Reaction products of phosphoryl trichloride and methyloxirane

LD50 (Dermal): > 2000 mg/kg rabbit
 LD50 (Oral): 632 mg/kg ratto
 LC50 (Inhalation vapours): > 7 mg/l/4h rat

TITANIUM DIOXIDE

LD50 (Oral): > 5000 mg/kg Rat
 LC50 (Inhalation mists/powders): 3,43 mg/l/4h ratto

1,2-BENZISOTHIAZOL-3(2H)-ONE

LD50 (Dermal): > 2000 mg/kg Ratto
 LD50 (Oral): 1193 mg/kg Ratto

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

LD50 (Dermal): 50 mg/kg coniglio
 LD50 (Oral): 53 mg/kg ratto
 LC50 (Inhalation mists/powders): 0,33 mg/l/4h
 LC50 (Inhalation vapours): 1,23 mg/l/4h

2-methyl-2H-isothiazol-3-one

LD50 (Dermal): 218 mg/kg coniglio
 LD50 (Oral): 183 mg/kg ratto
 LC50 (Inhalation mists/powders): 0,11 mg/l/4h
 LC50 (Inhalation vapours): 0,53 mg/l/4h ratto

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:

2-methyl-2H-isothiazol-3-one

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)
1,2-BENZISOTHIAZOL-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 Viscosity: >20,5 mm²/sec (40°C)

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 effects on human health under assessment

SECTION 12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity

1,2-BENZISOTHIAZOL-3(2H)-ONE

LC50 - for Fish	2,15 mg/l/96h Pesci
EC50 - for Crustacea	2,9 mg/l/48h Dafnia
EC50 - for Algae / Aquatic Plants	0,11 mg/l/72h Alghe
EC10 for Algae / Aquatic Plants	0,04 mg/l/72h
Chronic NOEC for Crustacea	12 mg/l 21d
Chronic NOEC for Algae / Aquatic Plants	0,0403 mg/l alghe cloroficee

KAOLIN

LC50 - for Fish	> 1000 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 1000 mg/l/48h OECD Guideline 202
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h OECD Guideline 201

TITANIUM DIOXIDE

LC50 - for Fish	> 10000 mg/l/96h Cyprinodon variegatus
Chronic NOEC for Algae / Aquatic Plants	100000 mg/l

2-methyl-2H-isothiazol-3-one

LC50 - for Fish	> 150 mg/l/96h
EC50 - for Crustacea	0,87 mg/l/48h dafnia
EC50 - for Algae / Aquatic Plants	0,157 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,0104 mg/l alghe

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

LC50 - for Fish	0,19 mg/l/96h pesci
EC50 - for Crustacea	0,16 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	0,048 mg/l/72h alghe
Chronic NOEC for Fish	0,098 mg/l pesci
Chronic NOEC for Crustacea	0,004 mg/l daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,00064 mg/l alghe

Reaction products of phosphoryl trichloride and methyloxirane

LC50 - for Fish	51 mg/l/96h
EC50 - for Crustacea	131 mg/l/48h
EC50 - for Algae / Aquatic Plants	82 mg/l/72h

12.2. Persistence and degradability

1,2-BENZISOTHIAZOL-3(2H)-ONE
Rapidly degradable

KAOLIN
Degradability: information not available

TITANIUM DIOXIDE
Solubility in water < 0,001 mg/l
Degradability: information not available

2-methyl-2H-isothiazol-3-one
NOT rapidly degradable

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)
Rapidly degradable

Reaction products of phosphoryl trichloride and methyloxirane
NOT rapidly degradable

12.3. Bioaccumulative potential

1,2-BENZISOTHIAZOL-3(2H)-ONE
Partition coefficient: n-octanol/water 0,7
BCF 6,62

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)
Partition coefficient: n-octanol/water > -0,71 Log Kow
BCF 3,6

Reaction products of phosphoryl trichloride and methyloxirane
BCF 0,8

12.4. Mobility in soil

Reaction products of phosphoryl trichloride and methyloxirane
Partition coefficient: soil/water 2,68

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 \geq 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

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

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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

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

Contained substance		
Point	75	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Point	75	1,2-BENZISOTHIAZOL-3(2H)-ONE REACH Reg.: 01-2120761540-60
Point	75	TITANIUM DIOXIDE REACH Reg.: 01-2119489379-17-0103

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 \geq 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

15.2 Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

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

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
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Use descriptor system:

PC 1	Adhesives, sealants
PROC 10	Roller application or brushing
PROC 19	Manual activities involving hand contact
SU 19	Building and construction work

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

Rev. 15 of 24/01/2024

Note to the user:

The information contained in this fact sheet is based on the knowledge available from us as of the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe under his own responsibility the laws and provisions in force regarding hygiene and safety. They do not take responsibility for improper use.

Provide adequate training to personnel involved in the use of chemical products.

METHODS OF CALCULATING THE CLASSIFICATION

Chemical-physical hazards: The classification of the product has been derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the chemical-physical properties are given in section 9.

Health hazards: The classification of the product shall be based on the calculation methods set out in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Hazards to the environment: The classification of the product shall be based on the calculation methods set out in Annex I to CLP Part 4, unless otherwise indicated in section 12.

Modifiche rispetto alla revisione precedente

Sono state apportate variazioni alle seguenti sezioni:

01 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.