

Material Safety Data Sheet

in accordance with EC Regulations 1907/2006 (REACH), 1272/2008 (CLP) and 2020/878

Vi-Pro Strongbond SB20 MS

Version: 1.0/EN

Data: 10.06.2022 r.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Vi-Pro Strongbond SB20 MS

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

Identified uses: one component, methoxy silane-based, adhesive for generic industrial applications.

Identified Uses	Industrial	Professional	Consumer
APPLICATIONS OF SEALANTS AND ADHESIVES	SU: 10 ERC: 2 PROC: 3, 4, 5, 8a, 8b, 9 PC: 1	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b PC: 1	SU: 17, 19. ERC: 5, 8b PROC: 10, 8a, 8b PC: 1
SEALANTS AND ADHESIVES FORMULATIONS IN INDUSTRY	SU: 10 ERC: 2 PROC: 3, 4, 5, 8a, 8b, 9	—	—
INDUSTRIAL APPLICATIONS OF SEALANTS AND ADHESIVES	SU: 17, 19 ERC: 5, 8b PROC: 10, 8a, 8b PC: 1	SU: 17, 19 ERC: 5, 8b PROC: 10, 8a, 8b PC: 1	—
CHEMICAL SUBSTANCE USE IN LABORATORY, INDUSTRIAL	PROC: 15 PC: 1, 21	—	—

1.3 Details of the supplier of the safety data sheet

Name: Proventuss Polska Sp. z o.o.

Full address: ul. Flisa 4, 02-247 Warszawa, Polska

Telephone: +48 22 122 85 49

E-mail address of the competent person responsible for the Safety Data Sheet: reach@vi-pro.eu

1.4 Emergency telephone number

General emergency number 112

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) (and subsequent amendments and supplements).

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.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH208 Contains: N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.
VINYLTRIMETHOXYSILANE.

May produce an allergic reaction.

Precautionary statements: --

2.3 Other hazards

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On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration \geq 0,1%.

The product reacts slowly in the presence of water (through ambient humidity) becoming a rubbery solid and producing METHANOL.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixtures

Chemical name	Identification	Classification 1272/2008 (CLP)	x=Conc.%
DIISONONYL PHTHALATE	CAS: 28553-12-0		$2,5 \leq x < 21$
	Indeks:		
	EINECS: 249-079-5		
	REACH: 01-2119430798-28		
VINYLOTRIMETOXYSILANE	CAS: 2768-02-7	Flam. Liq. 3 H226 Acute Tox. 4 H332 Skin Sens. 1B H317 LC50 Inhalation vapours: 16,8 mg/l/4h	$0,89 \leq x < 1$
	EINECS: 220-449-8		
	REACH: 01-2119513215-52-0003		
N-[3-(TRIMETOXYSILYL)PROPYL]-ETHYLENEDIAMINE	CAS: 1760-24-3	Acute Tox. 4 H332 STOT RE 2 H373 Eye Dam. 1 H318 Skin Sens. 1 H317 STA Inhalation vapours: 11 mg/l	$0,89 \leq x < 1$
	EINECS: 217-164-6		
	REACH: 01-2119970215-39-XXXX		
TITANIUM DIOXIDE [in powder form containing 1% or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	CAS: 13463-67-7	Carc. 2 H351, Classification note according to Annex VI to the CLP Regulation: 10, V, W	$3,5 \leq x < 4$
	EINECS: 236-675-5		
	INDEX: 022-006-00-2		
CARBON BLACK	CAS: 1333-86-4		$1 \leq x < 1,5$
	EINECS: 215-609-9		
	INDEX:		
	REACH: 012119384822-32		
REACTION MASS OF: N,N'-ETHANE-1,2-DIYLBIS(HEXANAMIDE); 12-HYDROXY-N-[2-[(1-OXYHEXYL)AMINO]ETHYL]OCTADECANAMIDE; N,N'-ETHANE-1,2-DIYLBIS(12-HYDROXYOCTADECANAMIDE)	CAS:	Aquatic Chronic 4 H413	$2,5 \leq x < 3$
	EINECS: 432-430-3		
	INDEX: 616-200-00-1		
	REACH: 01-0000017860-69-XXXX		
BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE	CAS: 52829-07-9	Repr. 2 H361f, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411	$0,2 \leq x < 0,25$
	EINECS: 258-207-9		
	INDEX:		
	REACH: 01-2119537297-32-XXXX		
METHANOL	CAS: 67-56-1	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370	$0 \leq x < 0,05$
	EINECS: 200-659-6		
	INDEX: 603-001-00-X		

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	REACH:	STOT SE 2 H371: ≥ 3% STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3 mg/l, STA Inhalation mists/powders: 0,501 mg/l, STA Inhalation gas: 700 ppm	
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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 immediately with a clean cloth or paper and wash affected area with soap and water.

SKIN: take off contaminated clothing. Wash immediately with plenty of water. If irritation persists, consult a doctor. Wash contaminated clothing before reuse.

INHALATION: In case of feeling unwell remove patient to fresh air and seek medical attention if breathing difficulty succeeding.

INGESTION: eject the product and rinse mouth with water

4.2 Most important symptoms and effects, both acute and delayed

Information not available

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

Consult a doctor if symptoms are severe or in the case of persistent irritation of the skin.

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.

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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. HANDING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and 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.

Storage class TRGS 510 (Germany): 10

7.3 Specific end use(s)

Information not available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The highest permissible concentrations and intensities of factors harmful to health in the work environment - Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018, item 1286 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018, item 1286, as amended) - not applicable.

Wartości DNEL komponentów w warunkach narażenia ostrego i przewlekłego:

VINYLTRIMETHOXYSILANE.

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,34	mg/l
Normal value in marine water	0.034	mg/l
Normal value for fresh water sediment	0.27	mg/kg
Normal value for water, intermittent release	3.4	mg/l
Normal value of STP microorganisms	110	mg/l
Normal value for the terrestrial compartment	0.046	mg/kg

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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			VND	0,3 mg/kg/d				
Inhalation	VND	93.4 mg/m3	VND	1.04 mg/m3			VND	4,9 mg/m3
Skin	VND	26.9 mg/kg/d	VND	0.3 mg/kg/d			VND	0,69 mg/kg/d

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

Predicted no-effect concentration – PNEC

Normal value in fresh water	0.062 mg/l
Normal value in marine water	0.0062 mg/l
Normal value for fresh water sediment	0.22 mg/kg
Normal value for marine water sediment	0.0222 mg/kg
Normal value for water, intermittent release	0.62 mg/l
Normal value of STP microorganisms	25 mg/l
Normal value for the terrestrial compartment	0.0085 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
Inhalation	NPI		NPI	1.04 mg/m3	NPI		NPI	35.3 mg/,3
Skin		17 mg/kg bw/d		0.3 mg/kg/d		5 mg/kg bw/d		5 mg/kg bw/d

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

Predicted no-effect concentration – PNEC

Normal value in fresh water	0,005 mg/l
Normal value in marine water	0,0005 mg/l
Normal value for fresh water sediment	8,02 mg/kg
Normal value for marine water sediment	0,802 mg/kg
Normal value of STP microorganisms	1 mg/l
Normal value for the terrestrial compartment	1,6 mg/kg

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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	VND	1 mg/kg	VND	1 mg/kg				
Inhalation	VND	1.4 mg/m ³	VND	1.4 mg/m ³	VND	5,6 mg/m ³	VND	5,6 mg/m ³
Skin	VND	1 mg/kg	VND	1 mg/kg	VND	2 mg/kg	VND	2 mg/kg

METHANOL

Threshold Limit Value

Type	Country	TWA/8h mg/m ³	ppm	STEL/15 min mg/m ³	ppm	Remarks/Observations
TLV	BGR	260	200			SKIN
TLV	CZE	250	187,75	1000	751	SKIN
AGW	DEU	270	200	1080	800	SKIN
MAK	DEU	130	100	260	200	SKIN E
TLV	DNK	260	200			SKIN
VLA	ESP	266	200			SKIN
VLEP	FRA	260	200	1300	1000	SKIN 11
HTP	FIN	270	200	330	250	SKIN
TLV	GRC	260	200	325	250	
AK	HUN	260				SKIN
GVI/KGVI	HRV	260	200			SKIN
VLEP	ITA	260	200			SKIN
TLV	NOR	130	100			SKIN
TGG	NLD	133				SKIN
VLE	PRT	260	200			SKIN
NDS/NDSch	POL	100		300		SKIN
TLV	ROU	260	200			SKIN
NGV/KGV	SWE	250	200	350 (C)	250 (C)	SKIN
NPEL	SVK	260	200			SKIN
MV	SVN	260	200	1040	800	SKIN
WEL	GBR	266	200	333	250	SKIN
OEL	EU	260	200			
TLV-ACGIH		262	200	328	250	SKIN

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.

8.2 Exposure controls

General requirements: 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 your hands with work gloves, category III (ref. standard EN 374). For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile

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(0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time > 480 min.). Contaminated gloves should be removed.

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

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard 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

9.1 Information on basic physical and chemical properties

stan skupienia:	pasta
kolor:	charakterystyczna wg specyfikacji
zapach:	charakterystyczny
temperatura topnienia/krzepnięcia:	brak danych
temperatura wrzenia:	brak danych
palność (ciała stałego, gazu):	nie dotyczy
górna/dolna granica wybuchowości:	nie oznaczono
temperatura zapłonu:	nie dotyczy
temperatura samozapłonu:	nie oznaczono
temperatura rozkładu:	nie oznaczono
pH:	nie oznaczono
lepkość kinematyczna:	10000 - 150000 cps
rozpuszczalność:	nie oznaczono
współczynnik podziału: n-oktanol/woda:	brak danych
prężność par (20°C):	brak danych
gęstość względna:	1,4
względna gęstość pary (powietrze=1):	nie oznaczono
charakterystyka cząstek:	nie dotyczy

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Information not available

9.2.2. Other safety characteristics

Evaporation rate Not applicable
Explosive properties not applicable
Information not available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Product reacts slowly with water (ambient humidity) turning into a rubbery solid and producing METHANOL.

10.2. Chemical stability

Product stable under normal conditions of use and storage.

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10.3. Possibility of hazardous reactions

Under conditions of normal use and storage not hazardous reactions are foreseeable.

10.4. Conditions to avoid

Humidity.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

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

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

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)

DIISONONYL PHTHALATE

LD50 (Oral):	> 10000 mg/kg Rat: - Sprague-Dawley
LD50 (Dermal):	> 3160 mg/kg Rabbit - New Zealand white
LC50 (Inhalation vapours):	> 4,4 mg/l Rat - Sprague-Dawley

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TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

LD50 (Oral): > 10000 mg/kg Rat

CARBON BLACK.

LD50 (Oral): > 8000 mg/kg Rattus sp.

LD50 (Dermal): > 3000 mg/kg Oryctolagus sp.

LC50 (Inhalation mists/powders): > 27 mg/l/1h Rattus sp.

VINYLTRIMETHOXY SILANE

LD50 (Oral): 7178 mg/kg Rattus sp.

LD50 (Dermal): 3200 mg/kg Oryctolagus sp.

LC50 (Inhalation vapours): 16,8 mg/l/4h Rattus sp.

N-[3-(TRIMETHOXY SILYL) PROPYL] ETHYLENEDIAMINE.

LD50 (Oral): 2295 mg/kg Rattus sp.

LD50 (Dermal): > 2000 mg/kg Oryctolagus sp.

LC50 (Inhalation vapours): 1,49 mg/l/4h Rattus sp.

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE

LD50 (Oral): 3700 mg/kg Rattus sp.

LD50 (Dermal): > 3170 mg/kg Rattus sp.

LC50 (Inhalation mists/powders): 0,5 mg/l Rattus sp.

METHANOL

STA (Oral): 100 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)

STA (Dermal): 300 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)

STA (Inhalation mists/powders): 0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Inhalation vapours): 3 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Inhalation gas): 700 ppm estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

SKIN CORROSION / IRRITATION

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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:

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

VINYLTRIMETHOXYSILANE.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

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:

VINYLTRIMETHOXYSILANE.

LC50 - for Fish 191 mg/l/96h Oncorhynchus mykiss

Chronic NOEC for Algae / Aquatic Plants 25 mg/l Selenastrum capricornutum

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

LC50 - for Fish 344 mg/l/96h Brachydanio rerio

EC50 - for Crustacea 81 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 126 mg/l/72h Scenedesmus subspicatus

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CARBON BLACK.

LC50 - for Fish	> 1000 mg/l/96h Brachydanio rerio
EC50 - for Algae / Aquatic Plants	> 10000 mg/l/72h Scenedesmus subspicatus

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

LC50 - for Fish	4,4 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	0,57 mg/l/48h Daphnia sp.
EC50 - for Algae / Aquatic Plants	1,9 mg/l/72h Scenedesmus subspicatus

DIISONONYL PHTHALATE

LC50 - for Fish	> 102 mg/l/96h Danio rerio
EC50 - for Crustacea	> 74 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 88 mg/l/72h Scenedesmus subspicatus

12.2. Persistence and degradability

VINYLTRIMETHOXYLANE.

NOT rapidly degradable

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

NOT rapidly degradable

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

NOT rapidly degradable

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

Solubility in water < 0,001 mg/l

Degradability: information not available

DIISONONYL PHTHALATE

Solubility in water < 0,1 mg/l

Rapidly degradable

METHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

DIISONONYL PHTHALATE

Partition coefficient: n-octanol/water 8,8

BCF > 3

METHANOL

Partition coefficient: n-octanol/water -0,77

BCF 0,2

12.4. Mobility in soil

DIISONONYL PHTHALATE

Partition coefficient: soil/water 6

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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 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

1272/2008 / EC Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) No. 1907/2006 with later d.

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1907/2006 / EC Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No. 793/93 and No. 1488 / 94, as well as Council Directive 76/769 / EEC and Commission Directive 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC as amended. d.

2020/878 Commission Regulation amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

2008/98 / EC Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain directives.

94/62 / EC Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste.

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Contained substance

Point 75

Point 52

DIISONONYL PHTHALATE

REACH Reg.: 01-2119430798-28

Point 20

BIS(NEODECANOYLOXY)DIOCTYLSTANNANE

Regulation (EC) No. 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 (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

VINYLTRIMETHOXYSILANE.

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

SECTION 16. OTHER INFORMATION

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH210	Safety data sheet available on request.
EUH211 or mist.	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray

Use descriptor system:

ERC 2	Formulation into mixture
ERC 5	Use at industrial site leading to inclusion into/onto article
ERC 8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
PC 1	Adhesives, sealants
PC 21	Laboratory chemicals
PROC 10	Roller application or brushing
PROC 15	Use as laboratory reagent
PROC 3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions
PROC 4	Chemical production where opportunity for exposure arises
PROC 5	Mixing or blending in batch processes
PROC 8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
PROC 8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC 9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
SU 10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU 17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

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SU 19 Building and construction work

LEGEND:

- ADR:	European Agreement concerning the carriage of Dangerous goods by Road
- ATE:	Acute Toxicity Estimate
- CAS NUMBER:	Chemical Abstract Service Number
- CE50:	Effective concentration (required to induce a 50% effect)
- CE NUMBER:	Identifier in ESIS (European archive of existing substances)
- CLP: EC	Regulation 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 NUMBER:	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:	EC Regulation 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 (EU) 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

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- 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)

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.