

Material Safety Data Sheet

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

Vi-Pro Strongbond SB55 MS

Version: 2.0/EN

Data: 28.11.2024 r.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE ENTERPRISE

1.1 Product identifier

Name: Vi-Pro Strongbond SB55 MS

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

Description / Application A one-component, methoxy silane based adhesive for general industrial use.

Identified Uses	Industrial	Professional	Consumer
PREPARATION OF ADHESIVES AND SEALANTS, INDUSTRIAL	SU: 10 ERC: 2 PROC: : 3,4,5a,8a,8b,9 PC: 1		--
APPLICATION OF INDUSTRIAL ADHESIVES AND SEALANTS	SU: 17,19 ERC: 5, 8b PROC: 10, 8a, 8b	SU: 17, 19 ERC: 5, 8b PROC: 10, 8a, 8b PC: 1	-
HOW TO USE A CHEMICAL, INDUSTRIAL LABORATORY	PROC: 15 PC: 1, 21		-

1.3 Details of the supplier of the safety data sheet

Company name: Proventuss Polska Sp. z o.o.
Address: ul. Flisa 4, 02-247 Warszawa, Polska
Telephone: +48 22 122 85 49

The e-mail address of the competent person responsible for the safety data sheet: reach@vi-pro.eu

1.4 Emergency telephone number

For urgent information, contact 112

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) 1272/2008 (CLP).

In any case, the product, containing a dangerous substance in a concentration corresponding to the provisions of section 3, requires the preparation of a safety data sheet with relevant information in accordance with Regulation (EU) 2015/830.

2.2. Label elements

Labeling according to Regulation (CE) 1272/2008 (CLP) as amended.

Hazard pictograms: --

Signal words: --

Hazard statements: --

EUH210 Safety data sheet available on request.

EUH211 Caution! In case of spraying, dangerous respirable droplets may be formed.

Do not breathe spray or mist

EUH208 Contains: N- [3- (TRIMETOXYSILYL) PROPYL] ETHYLENEDIAMINE., VINYL TRIMETOXYSILANE
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 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

Contains	Identification	Classification 1272/2008 (CLP)	x=Conc. %
DIISONONYL PHTHALATE	CAS: 28553-12-0		$12 \leq x < 13,5$
	Indeks:		
	EINECS: 249-079-5		
	REACH: 01-2119430798-28		
VINYLTRIMETHOXYSILANE.	CAS: 2768-02-7	Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Sens. 1B H317	$0,89 \leq x < 1$
	EINECS: 220-449-8		
	REACH: 01-2119513215-52-0003		
N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLE NEDIAMINE.	CAS: 1760-24-3	Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318, Skin Sens. 1 H317	$0,8 \leq x < 0,9$
	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/notes 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		
TRIETHYLPHOSPHATE	CAS: 78-40-0	Acute Tox. 4 H302, Eye Irrit. 2 H319	$4,5 \leq x < 5$
	WE 201-114-5		
	INDEX: 015-013-00-7		
	REACH: 01-2119492852-28-0000		
BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE	CAS: 52829-07-9	Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411	$0,15 \leq x < 0,2$
	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		
	REACH:		

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

SECTION 4. FIRST AID MEASURES

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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.

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

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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

Normom reference

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.)
CYP	Κύπρος	Οι περί Αζθάλειας και Υγείας ζηην Δπραζα (Φημικοι Παπάγονηερ) (Τποποιοηηκοί) Κανονιζμοί ηος 2019. Οι περί Ασφάλειας και Υγείας στην Εργασία (Καρκινογόνου και Μεταλλαζιογόνου Παράγοντες) (Τροποποιοηηκοί) Κανονιζμοί του 2020
CZE	Česká Republika	Nařizení vlády č. 41/2020 Sb. Nařizení vlády, kterým se mění nařizení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
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
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2019
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ `σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαζιγόνους παράγοντες κατά την εργασία`»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemičalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdi 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
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 Rodziny, Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea 157/2020 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici, precum și pentru modificarea și completarea Hotărârii Guvernului nr. 1.093/2006 privind stabilirea cerințelor minime de securitate și sănătate pentru protecția lucrătorilor împotriva riscurilor legate de expunerea la agenți cancerigeni sau mutageni la locul de muncă
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)

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DIISONONYL PHTHALATE

Threshold Limit Value

Type	Country	TWA/8godz		STEL/15min		Remarks / Observations
		Mg/m3	ppm	mg/m3	ppm	
TLV	CZE	3	0,171	10	0,57	
TLV	DNK	3				
GVI/KGVI	HRV	5				
NGV/KGV	SWE	3		5 (C)		
WEL	GBR	5				

TRIETHYLPHOSPHATE

Predicted no-effect concentration – PNEC

Normal value in fresh water	0,632	mg/l
Normal value in marine water	0,0632	mg/l
Normal value for fresh water sediment	5	mg/kg
Normal value for marine water sediment	0,5	mg/kg
Normal value of STP microorganisms	298,5	mg/l
Normal value for the terrestrial compartment	0,64	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	VND	5 mg/kg mc/dzień	VND	1 mg/kg/ mc/dzień				
Inhalation			VND	1,74 mg/m3			VND	9,9 mg/m3
Skin			VND	1 mg/m3 mc/dzień			VND	2 mg/kg/ mc/dzień

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Threshold Limit Value

Type	Country	TWA/8godz		STEL/15min		Remarks / Observations
		Mg/m3	ppm	mg/m3	ppm	
TLV	BGR	10				RESP
TLV	DNK	6				Som Ti
VLA	ESP	10				
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		
NGV/KGV	SWE	5				Totaldamm
NPEL	SVK	5				
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				

CARBON BLACK

Threshold Limit Value

Type	Country	TWA/8godz		STEL/15min		Remarks / Observations
		Mg/m3	ppm	mg/m3	ppm	
TLV	CZE	2				

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MAK	DEU	4			INHAL
MAK	DEU	1,5			RESP
VLA	ESP	3,5			
VLEP	FRA	3,5			INHAL
HTP	FIN	3,5	7		
VLEP	ITA	3			INHAL
TVL	NOR	3,5			
NGV/KGV	SWE	3			
WEL	GBR	3,5	7		INHAL

INYLTRIMETHOXYSILANE.

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

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	8.7 mg/m3	NPI		NPI	35.3 mg/,3
Skin		17 mg/kg mc/dzień		2.5 mg/kg mc/dzień		5 mg/kg mc/dzień		5 mg/kg Mc/dzień

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

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Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1,6	mg/kg

Zdrowie - Pochodny poziom niepowodujący zmian - 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				
Inhal	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

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 (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

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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

Properties	Value	Information
Appearance	paste	
Colour:	various	
Odour:	characteristic	
Odour threshold	Not available	
melting point / freezing point:	Not applicable	Reason for missing data:Determination is not technically possible.
Initial boiling point:	Not applicable	Reason for missing data:Determination is not technically possible.
Boiling point range	Not applicable	Reason for missing data:Determination is not technically possible.
Flammability (solid, gas)	not flammable	Method:A10 regulation EC 440/2008
upper / lower explosion limit:	Not applicable	
flash-point:	not available	
temperature of self-ignition:	Not applicable	
decomposition temperature:	Not applicable	
pH:	Not applicable	Reason for lack of data: Insoluble in water
Viscosity	10000 - 160000 cps	Method:UNI EN ISO 3219 - Rotational viscometer
solubility:	not marked	
partition coefficient: n-octanol / water:	Not applicable	
vapor pressure	Not available	
Relative density	1,62-1,66	Method:ISO 1183-1 A
relative vapor density:	Not applicable	
characteristics of particles:	Not applicable	
Explosive properties	Not applicable	
Oxidizing properties	Not available	

9.2. Other information

VOC (Directive 2010/75/CE) : 4,50 % - 73,35 g/litr

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 toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

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:

>2000 mg/kg

ATE (Dermal) of the mixture:

Not classified (no significant component)

VINYLTRIMETHOXYSILANE.

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

LD50 (Dermal) 3200 mg/kg Oryctolagus sp.

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

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE

LD50 (Oral) 2295 mg/kg Rattus sp.

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

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

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TRIETHYLPHOSPHATE

LD50 (Oral) 1600 mg/kg Rattus sp.

LD50 (Dermal) > 20000 mg/kg Oryctolagus sp.

LC50 (Inhalation) > 8817 mg/l/4h Rattus sp.

CARBON BLACK

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

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

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

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) 0,5 mg/l Rattus sp.

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

LD50 (Oral) > 10000 mg/kg Rat

DIISONONYL PHTHALATE

LD50 (Oral) > 10000 mg/kg Rat - Sprague-Dawley

LD50 (Dermal) > 3160 mg/kg Rabbit - New Zeland white

LC50 (Inhalation) > 4,4 mg/l Rat - Sprague-Dawley

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:

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

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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

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*

TRIETHYLPHOSPHATE

LC50 - for Fish

> 100 mg/l/96h *Danio rerio*

EC50 - for Algae / Aquatic Plants

901 mg/l/72h *Desmodesmus subspicatus*

EC10 for Algae / Aquatic Plants

127 mg/l/72h *Desmodesmus subspicatus*

Chronic NOEC for Crustacea

31,6 mg/l *Daphnia magna*

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

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VINYLTRIMETHOXYSILANE.
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: n-octanol/water	6

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

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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

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/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 52 DIISONONYL
PHTHALATE Reg. no.:
01-2119430798-28

Point 75 TITANIUM DIOXIDE
[in powder form
containing 1 % or
more of particles
with aerodynamic
diameter ≤ 10 µm]

Point 75 CARBON BLACK.
Reg. no.: 01-
2119384822-32

Point 20 BIS(NEODECANOYLO
XY)DIOCTYLSTANNA
NE

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

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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

TRIETHYLPHOSPHATE

VINYLTRIMETHOXYSILANE.

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

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

SECTION 16. OTHER INFORMATION

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
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
Eye Irrit. 2	Eye irritation, category 2
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Tekst wskázówek zagrożenia (H), podanych w rozdziale 2-3 niniejszej karty:

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 condition
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
SU 19	Building and construction work

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- 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 STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

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- 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) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 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) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Regulation (EU) 2020/217 (XIV Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.