



Silicone PX 3405.1

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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Further trade names

PX 3404.1

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

Barrier (Sealant)

1.3. Details of the supplier of the safety data sheet

Company name:	FS-BF GmbH & Co. KG
Street:	Hahnenseifener Straße 15
Place:	D-51580 Reichshof - Hahn
Telephone:	+49 (0)2297-9103-0
e-mail:	info@fsbf.com

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**GB CLP Regulation****Precautionary statements**

P102 Keep out of reach of children.

Special labelling of certain mixtures

EUH208	Contains OIT, 3-Aminopropyltriethoxysilane. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Additional advice on labelling

OIT(2-Octyl-2H-isothiazole-3-on) is encapsulated in the mixture and therefore only available in a small amount freely. In a mixture with similar composition there was no hint of a sensitizing effect in the Buehler test (OECD No. 406). A classification of this silicone with GHS 07 / Warning / H317 is not intended.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**



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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics			10 - 30 %
	934-956-3		01-2119827000-58	
	Asp. Tox. 1; H304			
128446-60-6	3-Aminopropyl(methyl)silsesquioxane, ethoxy-terminated			1 - 3 %
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2; H226 H315 H319			
37859-55-5	2-Pentanone O,O',O''-(methylsilylidyn)trioxime			1 - 2 %
	484-460-1		01-2120004323-76	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
919-30-2	3-aminopropyltriethoxysilane			0,1 - 0,5 %
	213-048-4	612-108-00-0	01-2119513215-52	
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H302 H314 H317			
26530-20-1	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]			0 - 0,02 %
	247-761-7	613-112-00-5		
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	934-956-3	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics	10 - 30 %
	inhalation: LC50 = > 5266 mg/l (vapours); dermal: LD50 = > 3160 mg/kg; oral: LD50 = > 5000 mg/kg		
37859-55-5	484-460-1	2-Pentanone O,O',O''-(methylsilylidyn)trioxime	1 - 2 %
	oral: ATE = 500 mg/kg		
919-30-2	213-048-4	3-aminopropyltriethoxysilane	0,1 - 0,5 %
	dermal: LD50 = 3800 mg/kg; oral: LD50 = 1780 mg/kg		
26530-20-1	247-761-7	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]	0 - 0,02 %
	inhalation: ATE 0,27 mg/kg (dusts or mists); dermal: ATE 311 mg/kg; oral: ATE 125 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 M acute; H400: M=100 M chron.; H410: M=100		

Further Information

OIT is encapsulated in the mixture and therefore only available in a small amount freely (see section 2.2).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

After curing, product is odourless and indifferent.



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After inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After contact with skin

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Call a doctor if you feel unwell.

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

When in doubt or if symptoms are observed, get medical advice.

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

not applicable

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Extinguishing powder. Water spray jet. Foam. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products.

5.3. Advice for firefighters

Use suitable breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Personal protection equipment: see section 8

For non-emergency personnel

No special measures are necessary.

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**For containment**

Take up mechanically. After curing, product can be disposed of with domestic or commercial waste.

Non-cured material has to be handled as special waste.

For cleaning up

Clean with a cloth immediatly. After curing, the product can be removed in most cases only mechanically.

Other information

Treat the recovered material as prescribed in the section on waste disposal.



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6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

Safe handling: see section 7

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Ensure sufficient ventilation.

Advice on general occupational hygiene

When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep/Store only in original container. Ensure adequate ventilation of the storage area. Avoid high temperatures or direct sunlight.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Eye glasses with side protection

Hand protection

Recommended glove material: E.g. butyl gloves, nitrile gloves

Recommended glove thickness: > 0,4 mm

Permeation time (maximum wear duration): > 1 h.

Skin protection

Protective clothing.

Respiratory protection

Usually no personal respiratory protection necessary.

Thermal hazards

not applicable

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Paste
Colour:	various
Odour:	characteristic
Odour threshold:	not determined



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Test method

Changes in the physical state

Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not applicable
Softening point:	not determined
Flash point:	> 150 °C DIN ISO 2592
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / dynamic:	not determined
Viscosity / kinematic: (at 40 °C)	> 1000 mm ² /s ISO 3219
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	ca. 1,0 g/cm ³

9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion: No data available

Other safety characteristicsSolvent content: VOC: < 30 g/l (2004/42 EG)
VOC (CH): < 30 g/kg**Further Information**

not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

May form hazardous decomposition products when exposed to high temperatures.

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight. Protect from moisture.



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10.5. Incompatible materials

Acid. Oxidising agent, strong. Reducing agent, strong. Water.

10.6. Hazardous decomposition products

Hazardous combustion products

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics				
	oral	LD50 > 5000 mg/kg	rat		OECD 401
	dermal	LD50 > 3160 mg/kg	rabbit		OECD 402
	inhalation (4 h) vapour	LC50 > 5266 mg/l			
37859-55-5	2-Pentanone O,O',O''-(methylsilylidyn)trioxime				
	oral	ATE 500 mg/kg			
919-30-2	3-aminopropyltriethoxysilane				
	oral	LD50 1780 mg/kg	Rat	RTECS	
	dermal	LD50 3800 mg/kg	Rabbit	RTECS	
26530-20-1	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]				
	oral	ATE 125 mg/kg			
	dermal	ATE 311 mg/kg			
	inhalation dust/mist	ATE 0,27 mg/kg			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Contains OIT, 3-Aminopropyltriethoxysilane. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards



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Other information

No data available

SECTION 12: Ecological information**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics					
	Acute fish toxicity	LL50 > 1028 mg/l	96 h	Scophthalmus maximus		OECD 203
	Acute algae toxicity	ErC50 > 10000 mg/l	72 h	Skeletonema costatum		ISO 10253
	Acute crustacea toxicity	EL50 > 3193 mg/l	48 h	Acartia tonsa		ISO 14669
37859-55-5	2-Pentanone O,O',O''-(methylsilylidyn)trioxime					
	Acute fish toxicity	LC50 >113 mg/l	96 h	Oncorhynchus mykiss	OECD 203	read-across
	Acute algae toxicity	ErC50 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201	read-across
	Acute crustacea toxicity	EC50 >113 mg/l	48 h	Daphnia magna	OECD 202	read-across
919-30-2	3-aminopropyltriethoxysilane					
	Acute algae toxicity	ErC50 603 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 331 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

Poorly biodegradable.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
	Hydrocarbons, C15-C20, n-Alkanes, Isoalkanes, Cyclic compounds, < 0,03 % Aromatics				
	OECD 306	74 %	28		
	Leicht biologisch abbaubar				

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
37859-55-5	2-Pentanone O,O',O''-(methylsilylidyn)trioxime	1,25
919-30-2	3-aminopropyltriethoxysilane	0,31

12.4. Mobility in soil

practically insoluble

12.5. Results of PBT and vPvB assessment



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The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

No data available

12.7. Other adverse effects

No indication of other harmful effects.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

After curing, product can be disposed of with domestic or commercial waste. Non-cured material has to be handled as special waste.

List of Wastes Code - contaminated packaging

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packaging

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.



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14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

Additional information

Biocidal Products Regulation (EU 528/2012): "Contains a biocide: OIT. May produce an allergic reaction."

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2.

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains OIT, 3-Aminopropyltriethoxysilane. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Further Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)