

Revision date 08-Apr-2022

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**BOSTIK PRO SEALANT S21 MULTI PURPOSE SILICONE** 

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Supercedes Date: 08-Apr-2022 Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name BOSTIK PRO SEALANT S21 MULTI PURPOSE SILICONE BLACK

Pure substance/mixture Mixture

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

Recommended use Sealant

Uses advised against None known

## 1.3. Details of the supplier of the safety data sheet

### **Company Name**

Bostik Limited Common Rd ST16 3EH Stafford UK

Tel: +44 (1785) 27 26 25 Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

## 1.4. Emergency telephone number

**United Kingdom** +44 (1785) 272650

Ireland Bostik: +353 (1) 8624900 (Monday- Friday 9am-5pm)

Europe 112

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity Category 3 - (H412)

## 2.2. Label elements

### Signal word

None

## **Hazard statements**

H412 - Harmful to aquatic life with long lasting effects.

## **EU Specific Hazard Statements**

EUH208 - Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]. May produce an allergic reaction

### Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

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P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing. Small amounts of acetic acid (CAS 64-19-7) are formed by hydrolysis and released upon curing.

#### PBT & vPvB

This mixture contains substances considered to be persistent, bio-accumulating and toxic (PBT). This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Triacetoxy(propyl)silane	241-816-9	17865-07-5	1 - <3	Skin Corr. 1B (H314) (EUH071)	-	01-2119966899- 07-XXXX
Silanetriol, methyl-, triacetate	224-221-9	4253-34-3	1- <2.5	Skin Corr. 1C (H314) Acute Tox. 4 (H302) (EUH014)	-	01-2119962266- 32-XXXX
4,5-dichloro-2-octyl-2H-i sothiazol-3-one [DCOIT]	264-843-8	64359-81-5	0.01 - <0.05	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Acute Tox. 4 (H302) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	Skin Irrit. 2 :: 0.025%<=C<5% Eye Irrit. 2 :: 0.025%<=C<3% Skin Sens. 1A :: C>=0.0015%	-

## Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Show this safety data sheet to the doctor in attendance. If medical advice is needed, General advice

have product container or label at hand.

Inhalation Remove to fresh air. If symptoms persist, call a doctor.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses

and continue flushing for at least 15 minutes. Consult an ophthalmologist.

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Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with Ingestion

water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

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

**Symptoms** None known.

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

Note to doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. **Suitable Extinguishing Media** 

Unsuitable extinguishing media Full water jet.

## 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapours.

Carbon dioxide (CO2), Silicon oxides, Silicon dioxide, Thermal decomposition can lead **Hazardous combustion products** 

to release of irritating and toxic gases and vapours.

## 5.3. Advice for firefighters

**Special protective equipment and** Wear self contained breathing apparatus for fire fighting if necessary.

precautions for fire-fighters

## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Do not get in eyes, on skin, or on clothing. Use personal protective equipment as

required. Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section **Environmental precautions** 

12 for additional Ecological Information.

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6.3. Methods and material for containment and cleaning up

**Methods for containment**Do not scatter spilled material with high pressure water streams.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after

work. Take off all contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep away from food, drink and animal feedingstuffs.

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

### 7.3. Specific end use(s)

### Specific use(s)

Sealant.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits** Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon

curing Small amounts of acetic acid (CAS 64-19-7) are formed by hydrolysis and

released upon curing

Chemical name	European Union	United Kingdom
Acetic acid	TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
64-19-7	TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>
	STEL: 50 mg/m <sup>3</sup>	STEL: 20 ppm
	STEL: 20 ppm	STEL: 50 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available

**Predicted No Effect Concentration** No information available.

(PNEC)

## 8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

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Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to

standard EN 166.

Wear suitable gloves. Recommended Use:. Neoprene™. Nitrile rubber. Butyl rubber. Hand protection

Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific

gloves. Gloves must conform to standard EN 374

Skin and body protection Respiratory protection

None under normal use conditions. In case of inadequate ventilation wear respiratory protection. Wear a respirator

conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation,

especially in confined areas.

Organic gases and vapours filter conforming to EN 14387. White. Brown. Recommended filter type:

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

**Physical state** Solid **Appearance** Paste Colour Black Odour Acetic acid.

**Odour threshold** No information available

Remarks • Method **Values** Property None known

Melting point / freezing point No data available >= 300 °C

Initial boiling point and boiling

range

Flammability Not applicable for liquids .

Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 100 °C CC (closed cup)

**Autoignition temperature** 

**Decomposition temperature** 

No data available Not applicable Insoluble in water pН

No data available None known pH (as aqueous solution) Kinematic viscosity  $> 21 \text{ mm}^2/\text{s}$ @ 40 °C

> 200 °C

No data available No data available Dynamic viscosity Water solubility

Insoluble in water Product cures with

moisture

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Solubility(ies) No data available None known Partition coefficient No data available No data available None known Vapour pressure None known Relative density 1.02 - 1.05 **Bulk Density** No data available

**Density** 1.02

Relative vapour densityNo data available None known

Particle characteristics

Particle Size No information available No information available **Particle Size** 

Distribution

None known

9.2. Other information **VOC Content (%)** 

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9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** Product cures with moisture.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical

None.

impact

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Protect from moisture. Exposure to air or moisture over prolonged periods. Do not

freeze. Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

**Hazardous decomposition** 

products

None under normal use conditions. Stable under recommended storage conditions.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

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

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

**Skin contact** Based on available data, the classification criteria are not met. May cause sensitisation

in susceptible persons.

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

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

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Acute toxicity

### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silanetriol, methyl-, triacetate	LD50 = 1600 mg/kg (Rattus)	-	-
_	OECD 401		
4,5-dichloro-2-octyl-2H-isothiaz	=1636 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus	=0.26 mg/L (Rattus) 4 h
ol-3-one [DCOIT]		cuniculus)	- , ,

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

Skin corrosion/irritation

The assessment of the result of testing was done in accordance with the guideline of the Commission 92/69/ EEC.

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Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal		6 days	Product score <=1
					Non-irritant

### Serious eye damage/eye irritation

By analogy to another tested similar product: No irritation after contact to the eyes. (H319 is void). The assessment of the result of testing was done in accordance with the guideline of the Commission 92/69/ EEC.

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritant
	Rabbit	eye		6 days	Product score <=1
					Non-irritant

### Respiratory or skin sensitisation

No classification is proposed, based on conclusive negative data. May produce an allergic reaction. OECD Test No. 406: Skin Sensitisation. May cause sensitisation in susceptible persons.

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig	Dermal	No sensitisation responses
Sensitisation	-		were observed

4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] (64359-81-5)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin	Guinea pig		sensitising
Sensitisation	-		-

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

STOT - single exposure Based on available data, the classification criteria are not met.

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**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

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

**Ecotoxicity** 

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Triacetoxy(propyl)silan e 17865-07-5		LC50 (96h) = 108.89 mg/L	-	EC50 (48h) = 89.59 mg/L		(ang am)
Silanetriol, methyl-, triacetate 4253-34-3	EC50 (72h): >500 mg/l (Pseudokirchner ella subcapitata)	` ,	-	EC50 (48h) >500 mg/l (Daphnia magna)		
4,5-dichloro-2-octyl-2H- isothiazol-3-one [DCOIT] 64359-81-5	EC50 (72h) =0.025 mg/L Algae (Scenedesmus subspicatus)(OE CD 201)	LC50 (96h) 0.0078 mg/L (Oncorhynchus mykiss)(OECD 203)	-	EC50 (48h) 0.0097 mg/L Daphnia magna (OECD 202)	100	100

## 12.2. Persistence and degradability

Persistence and degradability No information available.

4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] (64359-81-5)

Method	Exposure time	Value	Results
OECD Test No. 308: Aerobic and		Half-life	1.1-1.3 days
Anaerobic Transformation in			·
Aquatic Sediment Systems			

## 12.3. Bioaccumulative potential

## **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient					
Triacetoxy(propyl)silane	1.23					
Silanetriol, methyl-, triacetate	-2.4					
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	4.4					

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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

	Chemical name	PBT and vPvB assessment	
Triacetoxy(propyl)silane		The substance is not PBT / vPvB	
Ī	Silanetriol, methyl-, triacetate	The substance is not PBT / vPvB	
Ī	4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	The substance is not PBT / vPvB	

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

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environmental legislation.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

European Waste Catalogue 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous

substances

Other information Waste codes should be assigned by the user based on the application for which the

product was used.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1 UN number or ID numberNot regulated14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

**14.6 Special Provisions** None

## <u>IMDG</u>

14.1 UN number or ID number
14.2 Proper Shipping Name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Marine pollutant

Not regulated
Not regulated
Not regulated
Not regulated

14.5 Marine pollutant NP
14.6 Special Provisions None

**14.7 Maritime transport in bulk** Not applicable

according to IMO instruments

Air transport (ICAO-TI / IATA-DGR)

**14.1 UN number or ID number** Not regulated

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14.2 Proper Shipping NameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Provisions None

## Section 15: REGULATORY INFORMATION

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### **Persistent Organic Pollutants**

Not applicable

## National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of H-Statements referred to under section 3

EUH014 - Reacts violently with water

EUH071 - Corrosive to the respiratory tract

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H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H330 - Fatal if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Legend

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value
\* Skin designation

SVHC Substance(s) of Very High Concern

PBT Persistent, Bioaccumulative, and Toxic (PBT) Chemicals vPvB Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE Specific target organ toxicity - Repeated exposure STOT SE Specific target organ toxicity - Single exposure

EWC European Waste Catalogue

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

RID Regulations concerning the International Transport of Dangerous Goods by Rail

### Key literature references and sources for data

No information available

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Indication of changes

**Revision note** SDS sections updated: 2, 3, 11, 12.

Training Advice No information available

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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