

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008
This SDS is for generic information purposes and does not reflect required country specific information for OEL

BOSTIK PERFECT SEAL 2-1 BLACK Supercedes Date: 30-Oct-2023

Revision date 27-Feb-2024 Revision Number 1.02

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

1.1. Product identifier

Product Name BOSTIK PERFECT SEAL 2-1 BLACK

Form This substance/ mixture contains nanoforms

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Adhesives and/or sealants

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik AB Strandbadsvaegen 22 PO Box 903 25109 Helsingborg, Sweden Tel: +46 42 19 50 00

Tel: +46 42 19 50 00 Fax: +46 42 19 50 20

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

1.4. Emergency telephone number

Emergency Telephone

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EU Specific Hazard Statements

EUH208 - Contains Trimethoxyvinylsilane & N-(3-(trimethoxysilyl)propyl)ethylenediamine & N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine & Dioctyltinbis(acetylacetonate). May produce an allergic reaction EUH210 - Safety data sheet available on request

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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

2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No (EU Index No).	CAS No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	REACH registration number
Trimethoxyvinylsilane 1 - <2.5 %	220-449-8 (014-049-00- 0)	2768-02-7	Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226)	-	-	-	01-2119513215- 52-XXXX
N-(3-(trimethoxysilyl)pro pyl)ethylenediamine 0.1- <1 %	217-164-6	1760-24-3	Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H332) STOT SE 3 (H335)	-	-	-	01-2119970215- 39-XXXX
Dioctyltinbis(acetylaceto nate) 0.1 - <0.5 %	483-270-6	54068-28-9	STOT SE 2 (H371) Skin Sens. 1 (H317)	Skin Sens. 1 :: C>=5%	-	-	01-0000020199- 67-XXXX
N-[3-(Dimethoxymethylsil yl)propyl]-ethylenediamin e 0.1 - <0.5 %		3069-29-2	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317)	-	-	-	01-2119963926- 21-xxxx

Air contaminants formed when using the substance or mixture as intended

Chemical name	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Methyl alcohol 67-56-1	200-659-6 (603-001-00-X)	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Lig. 2	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	01-2119433307- 44-XXXX

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(H225)

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

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[I] - Restricted substance per REACH Annex XVII

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	
Trimethoxyvinylsilane	220-449-8 (014-049-00-0)	2768-02-7	-	-	-	11	-
N-(3-(trimethoxysilyl)pr opyl)ethylenediamine	217-164-6	1760-24-3	-	-	1.5	-	-
Dioctyltinbis(acetylacet onate)	483-270-6	54068-28-9	-	-	-	-	-
N-[3-(Dimethoxymethyl silyl)propyl]-ethylenedia mine		3069-29-2	500	-	-	-	-

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

have product container or label at hand.

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

Consult an ophthalmologist. Rinse immediately with plenty of water, also under the Eye contact

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

doctor.

Small amounts of toxic methanol are released by hydrolysis. Small amounts of toxic Ingestion

methanol are released by hydrolysis. Call a doctor immediately. Never give anything by

mouth to an unconscious person. Rinse mouth thoroughly with water.

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

None known. **Symptoms**

Effects of Exposure No information available.

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

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Note to doctors Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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.

Hazardous combustion products

Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Silicon dioxide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

in eyes, on skin, or on clothing.

6.2. Environmental precautions

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

12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containmentDo 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.

7.2. Conditions for safe storage, including any incompatibilities

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Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. 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)

Adhesives and/or sealants.

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 methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical name	European Union
Methyl alcohol	TWA: 200 ppm
67-56-1	TWA: 260 mg/m ³
	*

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DN			
Trimethoxyvinylsilane (2768	-02-7)		
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Systemic health effects Long term	Inhalation	27,6 mg/m³	
worker Systemic health effects Long term	Dermal	3,9 mg/kg bw/d	

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)				
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Systemic health effects Long term	Inhalation	35.5 mg/m³		
worker Systemic health effects Long term	Dermal	5 mg/kg bw/d		

Dioctyltinbis(acetylacetonate) (54068-28-9)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Long term Systemic health effects worker	Dermal	0.07 mg/kg bw/d		
Long term Systemic health effects	Inhalation	84 mg/m³		

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worker			
Short term	Inhalation	84 mg/m ³	
Systemic health effects		_	
worker			
Long term	Inhalation	0.091 mg/m ³	
Short term		_	
Local health effects			
worker			

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Long term Systemic health effects	Inhalation	12 mg/m³		
worker Long term Systemic health effects	Dermal	1.7 mg/kg bw/d		

Derived No Effect Level (DN			
Trimethoxyvinylsilane (2768			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Systemic health effects Long term	Inhalation	18,9 mg/m³	
Consumer Systemic health effects Long term	Dermal	7,8 mg/kg bw/d	
Consumer Systemic health effects Long term	Oral	0,3 mg/kg bw/d	

N-(3-(trimethoxysilyl)propyl)ethyl	N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor			
Consumer Systemic health effects Long term	Oral	2.5 mg/kg bw/d				
Consumer Systemic health effects Long term	Inhalation	8.7 mg/m ³				
Consumer Systemic health effects Long term	Dermal	2.5 mg/kg bw/d				

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Consumer Long term Systemic health effects	Inhalation	2.9 mg/m³		
Consumer Long term Systemic health effects	Dermal	0.83 mg/kg bw/d		
Consumer Long term Systemic health effects	Oral	0.83 mg/kg bw/d		

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Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	
Trimethoxyvinylsilane (2768-02-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.34 mg/l
Marine water	0.034 mg/l
Microorganisms in sewage treatment	110 mg/l

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	0.062 mg/l		
Marine water	0.0062 mg/l		
Sewage treatment plant	25 mg/l		

Dioctyltinbis(acetylacetonate) (54068-28-9)			
Environmental compartment	Predicted No Effect Concentration (PNEC)		
Freshwater	26 μg/l		
Marine water	2.6 μg/l		
Freshwater - intermittent	260 μg/l		
Sewage treatment plant	1 mg/l		
Freshwater sediment	0.155 mg/kg dry weight		
Marine sediment	0.0155 mg/kg dry weight		
Soil	0.0158 mg/kg dry weight		

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.062 mg/l
Marine water	0.006 mg/l
Sewage treatment plant	25 mg/l
Freshwater sediment	0.24 mg/kg dry weight
Marine sediment	0.024 mg/kg dry weight
Soil	0.01 mg/kg dry weight

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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

standard EN 166.

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

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

None under normal use conditions.

Respiratory protection 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.

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

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

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@ 40 °C

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Characteristic. Odour

Remarks • Method Values Property

Melting point / freezing point No data available Initial boiling point and boiling No data available

range

Flammability No data available

Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

> 60 °C Flash point CC (closed cup) **Autoignition temperature** No data available

Decomposition temperature None known

Not applicable. Reacts with water. pН

pH (as aqueous solution) No data available Kinematic viscosity $> 21 \text{ mm}^2/\text{s}$

Dynamic viscosity No data available

Water solubility Reacts with water. Product cures

with moisture No data available Solubility(ies) Partition coefficient No data available Vapour pressure No data available Relative density No data available **Bulk Density** No data available Density 1.58 g/cm³ No data available

Relative vapour density

Particle characteristics

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

9.2. Other information

Solid content (%) No information available

No data available **VOC** content

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.

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10.4. Conditions to avoid

Product cures with moisture. Protect from moisture. Exposure to air or moisture over Conditions to avoid

prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and

sources of ignition.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are

formed by hydrolysis and released upon curing.

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.

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

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

susceptible persons.

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

Symptoms related to the physical, chemical and toxicological characteristics

No information available. **Symptoms**

Acute toxicity

Numerical measures of toxicity

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

>5000 mg/kg ATEmix (oral) ATEmix (dermal) >5000 mg/kg >20000 ppm ATEmix (inhalation-gas) ATEmix (inhalation-dust/mist) >5 mg/l ATEmix (inhalation-vapour) 722.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg	= 3540 mg/kg (Oryctolagus	LC50 (4hr) 16.8 mg/l (Rattus)
	(Rattus) OECD 401	cuniculus)	OECD TG 403
N-(3-(trimethoxysilyl)propyl)eth	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44
ylenediamine			mg/L air
Dioctyltinbis(acetylacetonate)	LD50 =2500 mg/kg (Rattus)	LD50 >2000 mg/kg (Rattus)	= 5.1 mg/L (Rat) 4 h
N-[3-(Dimethoxymethylsilyl)pro	=200 - 2000 mg/Kg (Rattus)	>5000 mg/Kg (Oryctolagus	> 5.2 mg/L (Rattus)4 h
pyl]-ethylenediamine	(OECD 401)	cuniculus)	(OECD 403)
		(OECD 402)	

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

Skin corrosion/irritation

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

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit				Mild skin irritant
Acute Dermal					
Irritation/Corrosion					

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

N-(3-(trimethoxysilyI)propyI)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			Eye Damage
Acute Eye					
Irritation/Corrosion					

Respiratory or skin sensitisation

OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data. May cause sensitisation in susceptible persons.

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

Dioctyltinbis(acetylacetonate) (54068-28-9)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin		Dermal	> 5 % sensitising
Sensitisation: Local Lymph Node			
Assay			

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)

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

Component Information

Trimethoxyvinylsilane (2768-02-7)

THINGENEXY VIITY ISHAHE (27 66 62 1)			
Method	Species	Results	
OECD Test No. 471: Bacterial Reverse	in vitro	Not mutagenic	
Mutation Test			

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse	Mammalian cells in vitro	Negative
Mutation Test		
OECD Test No. 476: In vitro Mammalian Cell	Mammalian cells in vitro	Negative
Gene Mutation Test		_

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

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

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N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	NOAEL >500 mg/Kg
Toxicity Study with the	Oral	
Reproduction/Developmental Toxicity Screening		
Test		

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

STOT - repeated exposureBased on available data, the classification criteria are not met.

Trimethoxyvinylsilane (2768-02-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413:	Rat	Inhalation vapour		90 days	0.058 NOAEL
Sub-chronic Inhalation					
Toxicity: 90-day Study					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422:	Rat	Subacute oral		28 days	NOAEL >500 mg/kg
Combined Repeated Dose		toxicity gavage			
Toxicity Study with the					
Reproduction/Developme					
ntal Toxicity Screening					
Test					

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

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
Trimethoxyvinylsilane	EC 50 (72h) >	LC50 (96h) =	-	EC50(48hr)		
2768-02-7	957 mg/l	191 mg/l		168.7mg/l		
	(Desmodesmus	(Oncorhynchus		(Daphnia		
	subspicatus)	mykiss)		magna)		
	EU Method C.3					
N-(3-(trimethoxysilyl)pr	-	LC50 (96H)	_	EC50 (48h)		
opyl)ethylenediamine		=597 mg/L		=81mg/L		
1760-24-3		(Danio		Daphnia magna		
		rerio)Semi-static		Static		
Dioctyltinbis(acetylacet	-	LC50 (96h) =86	-	EC50 (48h)		
onate)		mg/L`(Static)		=58.6 mg/Ĺ		

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54068-28-9		(Daphnia	
		magna)	

12.2. Persistence and degradability

No information available. Persistence and degradability

Trimethoxyvinylsilane (2768-02-7)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily
Biodegradability: Manometric			biodegradable
Respirometry Test (TG 301 F)			_

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

	Chemical name	Partition coefficient	
Trimethoxyvinylsilane		1.1	
N-(3-(trimethoxysilyl)propyl)ethylenediamine		-0.3	

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 does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

Chemical name		PBT and vPvB assessment
Trimethoxyvinylsilane		The substance is not PBT / vPvB
N-(3-(trimethoxysilyl)propyl)ethylenediamine Dioctyltinbis(acetylacetonate) N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine		The substance is not PBT / vPvB
		The substance is not PBT / vPvB
		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 contents/container in accordance with local, regional, national, and

international regulations as applicable.

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

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 **European Waste Catalogue**

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

product was used.

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated Not regulated 14.4 Packing group

14.5 Marine pollutant

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk

according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

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, Authorisation, 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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name		CAS No.	Restricted substance per REACH Annex XVII
	Diisononyl phthalate	28553-12-0	52[a].
	Dioctyltinbis(acetylacetonate)	54068-28-9	20.

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20 (6) DOT

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Not to be used in toys or childcare articles above 0.1% which can be placed in the mouth by children

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)

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number	
Dioctyltinbis(acetylacetonate) - 54068-28-9	1.1	

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

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

Not applicable

National regulations

France

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) slightly hazardous to water (WGK 1)

TRGS - 510 Storage Class Storage Class 11: Combustible solids

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

Sweden

Occupational exposure limits AFS 2018:1

Denmark

Registration number(s) (P-no.) No information available

1-1

AT-Guide C.0.1 August 2007: Limit values for substances and materials

Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

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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

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H371 - May cause damage to organs

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

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

EWC: European Waste Catalogue

LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

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

AGW Occupational exposure limit value BGW Biological limit value Ceiling Maximum limit value Sk* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	On basis of test data
mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

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European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

Product Safety & Regulatory Affairs **Prepared By**

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Training Advice No information available

Further information No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

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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