Bauder Sealant

safety data sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Revision date: 19.09.2025 Supersedes: 20.07.2023

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

1.1 Product identifier

Trade Name: Bauder Sealant
Product Description: Sealants Adhesive.
Article Number: GB60220140

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

Identified uses	
Sealants Adhesive.	
Use advised against	**Reason**
Use only for intended applications.	-

1.3 Details of the supplier of the safety data sheet

Supplier

Bauder Ltd
70 Landseer Road
Ipswich
Suffolk
IP3 0DH
Tel: +44 (0) 1473 257671
Email: info@bauder.co.uk

1.4 Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only).

For medical advice, members of the public should contact NHS 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Eye Irrit. 2, H319
Skin Sens. 1,
H317

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.
See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.
Precautionary statements **Prevention**	:	P280 – Wear protective gloves/protective clothing/eye protection/face protection. P261 - Avoid breathing vapour.
Response	:	P362 + P364 - Take off contaminated clothing and wash it before reuse. P337 + P313 - If eye irritation persists: Get medical advice/attention. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles		Not applicable.
Special packaging requirements **Containers to be fitted with child-resistant fastenings**	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:	:	This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

Other hazards which do not result in classification: : Curing process releases a small amount of methanol.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No information available

3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification	Type
trimethoxyvinylsilane	REACH #: 01-2119513215-52 EC: 220-449-8 CAS: 2768-02-7 Index: 014-049-00-0	≤3	Acute Tox. 4, H332 Eye Irrit. 2, H319 Skin Sens. 1B, H317	[1]
N-(3-(trimethoxysilyl)propyl) ethylenediamine	REACH #: 01-2119970215-39 EC: 217-164-6 CAS: 1760-24-3	<3	Acute Tox. 4, H332 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373 (respiratory tract) (inhalation)	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤1	Not classified.	[2]
Dioctyltinbis(acetylacetonate)	REACH #: 01-0000020199-67 EC: 483-270-6 CAS: 54068-28-9	<1	Skin Sens. 1, H317 STOT SE 2, H371 (immune system) (oral)	[1] [2]
bumetrizole	REACH #: 01-2119971796-18 EC: 223-445-4 CAS: 3896-11-5	<1	Not classified.	[3]
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	REACH #: 01-2119537297-32 EC: 258-207-9 CAS: 52829-07-9	<1	Eye Dam. 1, H318 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1]
methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	<0.1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
carbon black, non respirable	EC: 215-609-9	≤0.1	Not classified.	[2]

	CAS: 1333-86-4		See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes.
Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	No specific data.
Skin Contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	Antidote for methanol poisoning is ethanol.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	No specific fire or explosion hazard.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

5.3. Advice for firefighters

Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large spill	:	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene		Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available
Industrial sector specific solution : Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
titanium dioxide	**EH40/2005 WELs (United Kingdom (UK), 1/2020).** TWA: 4 mg/m³ 8 hours. Form: respirable TWA: 10 mg/m³ 8 hours. Form: total inhalable
Dioctyltinbis(acetylacetonate)	**EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin compounds, organic, except cyhexatin (ISO) as Sn] Absorbed through skin.** STEL: 0.2 mg/m³, (as Sn) 15 minutes. TWA: 0.1 mg/m³, (as Sn) 8 hours.
methanol	**EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.** STEL: 333 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m³ 8 hours. TWA: 200 ppm 8 hours.
carbon black, non respirable	**EH40/2005 WELs (United Kingdom (UK), 1/2020).** STEL: 7 mg/m³ 15 minutes. TWA: 3.5 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
trimethoxyvinylsilane	DNEL	Long term Oral	0.3 mg/kg	General	Systemic

			bw/day	population	
	DNEL	Long term Dermal	3.9 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	6.7 mg/m³	General population	Systemic
	DNEL	Long term Dermal	7.8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	27.6 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	26400 mg/ m³	General population	Systemic
N-(3-(trimethoxysilyl)propyl) ethylenediamine	DNEL	Long term Inhalation	0.1 mg/m³	General population	Local
	DNEL	Long term Inhalation	0.6 mg/m³	Workers	Local
	DNEL	Short term Inhalation	4 mg/m³	General population	Local
	DNEL	Short term Inhalation	5.36 mg/m³	Workers	Local
	DNEL	Long term Oral	8 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	50 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	50 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	260 mg/m³	Workers	Systemic
Dioctyltinbis(acetylacetonate)	DNEL	Long term Dermal	0.07 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	84 mg/m³	Workers	Systemic
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	DNEL	Long term Oral	0.18 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.31 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0.9 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.27 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.8 mg/kg bw/day	Workers	Systemic
methanol	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic

	DNEL	Short term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	26 mg/m³	General population	Local
	DNEL	Long term Inhalation	26 mg/m³	General population	Local
	DNEL	Short term Inhalation	26 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	26 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	130 mg/m³	Workers	Local
	DNEL	Long term Inhalation	130 mg/m³	Workers	Local
	DNEL	Short term Inhalation	130 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	130 mg/m³	Workers	Systemic
carbon black, non respirable	DNEL	Long term Inhalation	0.06 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m³	Workers	Systemic

PNEC's

Product/ingredient name	Compartment Detail	Value	Method Detail
N-(3-(trimethoxysilyl)propyl)ethylenediamine	Fresh water	0.05 mg/l	-
	Fresh water	0.072 mg/l	-
	Marine water	0.005 mg/l	-
	Sewage Treatment Plant	20 mg/l	-
	Fresh water sediment	0.181 mg/kg	-
	Marine water sediment	0.018 mg/kg	-
	Soil	0.007 mg/kg	-
Dioctyltinbis(acetylacetonate)	Fresh water	0.026 mg/l	-
	Fresh water	0.26 mg/l	-
	Marine water	0.003 mg/l	-
	Sewage Treatment Plant	1 mg/l	-
	Fresh water sediment	0.155 mg/kg	-
	Marine water sediment	0.015 mg/kg	-
	Soil	0.016 mg/kg	-
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	Fresh water	0.004 mg/l	-
	Fresh water	0.007 mg/l	-
	Marine water	0.38 µg/l	-
	Sewage Treatment Plant	1 mg/l	-
	Fresh water sediment	5.9 mg/kg	-

	Marine water sediment	0.59 mg/kg	-
	Soil	0.59 mg/kg	-

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or

engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information of basic physical and chemical properties

Appearance

Physical state	:	Solid
Colour	:	Grey.
Odour	:	Mild.
Odour threshold	:	Not available
Melting point/freezing point	:	Not available
Initial boiling point and boiling range	:	Not available
Flammability (solid, gas)	:	Not available
Upper/lower flammability or explosive limits	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	400°C (752°F)
Decomposition temperature	:	Not available
pH	:	Not applicable
Viscosity	:	Dynamic: 600000 to 1000000 mPa·s
Solubility (ies)	:	

Media	Result
Cold water	Not soluble

Solubility in water		Insoluble
Miscible with water	:	No
Partition coefficient: n-octanol/water		Not applicable
Vapour Pressure	:	Not applicable
Relative density	:	1.44 to 1.54

Vapour density	:	Not applicable
Explosive properties		Not available
Oxidising properties		Not available
Particle characteristics		
Median particle size		Not available

9.2 Other information

No information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur. Curing process releases a small amount of methanol.

10.4 Conditions to avoid

Keep away from heat and direct sunlight.

10.5 Incompatible materials

No specific data.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11:TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
trimethoxyvinylsilane	LC50 Inhalation Vapour	Rat	16.8 mg/l	4 hours
	LD50 Dermal	Rabbit - Female	3158 mg/kg	-
	LD50 Oral	Rat - Male, Female	6899 mg/kg	-
	LD50 Oral	Rat	7340 uL/kg	-

N-(3-(trimethoxysilyl)propyl) ethylenediamine	LC50 Inhalation Dusts and mists	Rat	1.49 mg/l	4 hours
	LD50 Oral	Rat	2413 mg/kg	-
Dioctyltinbis (acetylacetonate)	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	LC50 Inhalation Dusts and mists	Rat	500 mg/m³	4 hours
	LD50 Dermal	Rat	3170 mg/kg	-
	LD50 Oral	Rat	3700 mg/kg	-
methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
carbon black, non respirable	LD50 Oral	Rat	>15400 mg/kg	-

Conclusion/Summary: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Bauder Sealant	N/A	N/A	N/A	1166.7	103.5
Trimethoxyvinylsilane	6899	3158	N/A	16.8	N/A
N-(3-(trimethoxysilyl)propyl)ethylenediamine	2413	N/A	N/A	N/A	1.49
Dioctyltinbis (acetylacetonate)	2500	N/A	N/A	N/A	N/A
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	3700	3170	N/A	N/A	N/A
methanol	100	300	64000	3	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
trimethoxyvinylsilane	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	Eyes - Severe irritant	Rabbit	-	15 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	Eyes - Severe irritant	Rabbit	-	-	21 days
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-

Conclusion/Summary

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

Eyes : Eye Irrit. 2

Respiratory : Based on available data, the classification criteria are not met

Sensitisation :

Conclusion/Summary

Skin : Skin Sens. 1

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

Mutagenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Dioctyltinbis(acetylacetonate) methanol	Category 2 Category 1	oral -	immune system -

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
N-(3-(trimethoxysilyl)propyl)ethylenediamine	Category 2	inhalation	respiratory tract

Aspiration hazard

Not available.

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye Contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.

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

Short term exposure

Potential immediate effects	:	Irritating to eyes. Sensitisation
Potential delayed effects	:	Not available

Long term exposure

Potential immediate effects	Not available
Potential delayed effects	Not available

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Dioctyltinbis(acetylacetonate)	Sub-acute NOAEL Oral	Rat	1.8 mg/kg	7 days

Conclusion/Summary	:	Not available
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards
Mutagenicity	:	No known significant effects or critical hazards
Reproductive toxicity	:	No known significant effects or critical hazards
Other information	:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
trimethoxyvinylsilane	Acute EC50 >89 mg/l Fresh water	Algae	72 hours
	Acute EC50 168.7 mg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 191 mg/l Fresh water	Fish - *Oncorhynchus mykiss*	96 hours

N-(3-(trimethoxysilyl)propyl) ethylenediamine	Acute EC50 8.8 mg/l Fresh water	Algae	72 hours
	Acute EC50 81 mg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 597 mg/l Fresh water	Fish - *Brachydanio rerio*	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - *Daphnia magna*	21 days
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Water flea - *Daphnia pulex* - Neonate	48 hours
	Acute LC50 >1000000 µg/l Marine water	Fish - Mummichog - *Fundulus heteroclitus*	96 hours
bumetrizole	Acute EC50 >100 mg/l Fresh water	Algae	72 hours
	Acute EC50 >100 mg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 >100 mg/l Fresh water	Fish - *Danio rerio*	96 hours
	Chronic NOEC 10 mg/l Fresh water	Daphnia - *Daphnia magna*	21 days
	Chronic NOEC 100 µg/l Fresh water	Fish - Zebra danio - *Danio rerio* - Juvenile (Fledgling, Hatchling, Weanling)	28 days
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	Acute EC50 0.705 mg/l Fresh water	Algae - *Pseudokirchneriella subcapitata*	72 hours
	Acute EC50 8.58 mg/l Fresh water	Daphnia – *Daphnia magna*	48 hours
	Acute LC50 4.4 mg/l Fresh water	Fish – *Lepomis macrochirus*	96 hours
	Chronic NOEC 0.23 mg/l Fresh water	Daphnia - *Daphnia magna*	21 days
methanol	Acute EC50 16.912 mg/l Marine water	Algae - Green algae - *Ulva pertusa*	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Common shrimp, sand shrimp - *Crangon crangon* - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Water flea - *Daphnia magna* - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Zebra danio - *Danio rerio* - Egg	96 hours

	Chronic NOEC 9.96 mg/l Marine water	Algae - Green algae - *Ulva pertusa*	96 hours
Carbon black, non respirable	Acute EC50 37.563 mg/l Fresh water	Daphnia – Water flea – Daphnia magna – Neonate	48 hours

Conclusion/Summary : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
bumetrizole	-	10 % - Not readily - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
N-(3-(trimethoxysilyl)propyl) ethylenediamine	-	-	Readily
bumetrizole	Fresh water >180 days, 20°C	-	Not readily
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bumetrizole	-	6356	High
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	0.35	-	Low
methanol	-0.77	<10	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
trimethoxyvinylsilane	No	N/A	N/A	No	N/A	N/A	N/A
Dioctyltinbis(acetylacetonate)	No	N/A	N/A	No	N/A	N/A	N/A
bumetrizole	No	Yes	Yes	No	Yes	Yes	Yes
methanol	No	N/A	No	No	No	N/A	No

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes

Waste catalogue

Waste Code	Waste designation
08 04 09*	Waste adhesives and sealants containing organic solvents or other hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-

14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instructions

Not available.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture

UK (GB)/REACH
Annex XIV - List of substances subject to authorisation
Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Part	Ingredient name	Status
Part 1	dioctyltin compounds	Listed

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Dioctyltinbis(acetylacetonate) methanol	<1 <0.1	20 69

Labelling: Not applicable

Seveso Directive

This product is controlled under the Seveso Directive.

EU Regulations

Industrial emissions (integrated pollution prevention and control) – Air	:	Not listed
Industrial emissions (integrated pollution prevention and control) – Water	:	Not listed

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed

Montreal Protocol

Not listed

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed

UNECE Aarhus Protocol on POP's and Heavy Metals

Not listed

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	**Russian Federation inventory**: Not determined.
Japan	:	**Japan inventory (CSCL)**: Not determined. **Japan inventory (ISHL)**: Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms :

ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed
H311	Toxic in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H361f	Supspected of damaging fertility
H370	Causes damage to organs
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Full text of classifications

Acute Tox. 3	ACUTE TOXICITY – Category 3
Acute Tox. 3	ACUTE TOXICITY – Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD – Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD – Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS – Category 2
Repr. 2	REPRODUCTIVE TOXICITY – Category 2
Skin Sens. 1	SKIN SENSITISATION – Category 1
Skin Sens. 1B	SKIN SENSITISATION – Category 1B

STOT RE 2	SPECIFIC TARGET ORGAN TOXITY – REAPEATED EXPOSURE – Category 2
STOT SE 1	SPECIFIC TARGET ORGAN TOXITY – SINGLE EXPOSURE – Category 1
STOR SE 2	SPECIFIC TARGET ORGAN TOXITY – SINGLE EXPOSURE – Category 2

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