



Safety Data Sheet according to Regulation (EC) 'No. 2020/878

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1	Product Identifier	8670A	Revision Date:	18-06-2026
	Product Name:	CARBOXANE 2000 TOPCOAT - A	Supersedes Date:	01-04-2025
			Version Number:	6
	UFI Code:	KG5F-JGAQ-S20P-P0RT		
	Contain nanoform:	Yes		
1.2	Relevant identified uses of the substance or mixture and uses advised against	Base component of 2 components coating - Industrial use. Advised against: others than recommended		
	Product to be mixed with:	CARBOXANE 2000 TOPCOAT - B		
	Mixing ratio by volume Part A/ Part B:	2 / 1		
1.3	Details of the supplier of the safety data sheet			
	Supplier:	Carboline Italia, S.p.a. Via Margherita Viganò De Vizzi, 77 20092 Cinisello Balsamo (MI) Italy		
		Regulatory / Technical Information: +32 67493710 Nivelles, Belgium +39 0294759236 Cinisello Balsamo, Italy		
		regulatoryeurope@carboline.com		
1.4	Emergency telephone number:	CHEMTREC +1 703 5273887(Outside US) 112(24 / 7) Croatia +3851 2348 342(24 / 7 In Croatian And English) Iceland 112(24 / 7) Malta 112(24 / 7)		

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Flammable Liquid, category 3	H226
Skin Sensitizer, category 1	H317
Serious Eye Damage, category 1	H318
Hazardous to the aquatic environment, Chronic, category 3	H412

Flammable liquid and vapour.
 May cause an allergic skin reaction.
 Causes serious eye damage.
 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Symbol(s) of Product****Signal Word**

Danger

Named Chemicals on Label

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane, Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

HAZARD STATEMENTS

Skin drying or cracking	EUH066
Flammable Liquid, category 3	H226
Skin Sensitizer, category 1	H317
Serious Eye Damage, category 1	H318
Hazardous to the aquatic environment, Chronic, category 3	H412

Repeated exposure may cause skin dryness or cracking.
 Flammable liquid and vapour.
 May cause an allergic skin reaction.
 Causes serious eye damage.
 Harmful to aquatic life with long lasting effects.

PRECAUTION PHRASES

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

2.3 Other hazards**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

Endocrine disrupting properties - Toxicity

Name According to EEC	CAS-No.
No Information	

Endocrine disrupting properties - Ecotoxicity

Name According to EEC	CAS-No.
No Information	

SECTION 3: Composition/Information On Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous ingredients

<u>Name According to EEC</u> <u>EINEC No.</u> <u>CAS-No.</u> <u>REACH Reg No.</u>	<u>%</u>	<u>Classifications</u>	SCL Value: ATE Value: M-Factor:
titanium dioxide 236-675-5 13463-67-7 01-2119489379-17	25 - <50		SCL Value: - ATE Value: - M-Factor: (acute) - M-Factor: (chronic) -
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane 219-784-2 2530-83-8 01-2119513212-58	10 - <25	H318-412 Aquatic Chronic 3, Eye Dam. 1	SCL Value: - ATE Value: - M-Factor: (acute) - M-Factor: (chronic) -

n-butyl acetate 204-658-1 123-86-4 01-2119485493-29 607-025-00-1	2.5 - <10	H226-336 Flam. Liq. 3, Skin Cracking, STOT SE 3 NE	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
Bis(neodecanoyloxy) dioctylstannane 269-595-4 68299-15-0 No Information	1.0 - <2.5	H371 STOT SE 2	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
Siloxanes and Silicones, di-Me, reaction products with silica 614-122-2 67762-90-7 No Information	1.0 - <2.5		SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
reaction mass ethylbenzene - xylene 905-588-0 - 01-2119539452-40	1.0 - <2.5	H226-304-312-315-319-332-335-373 Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, STOT RE 2, STOT SE 3 RTI	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-

isotridecylalcohol, ethoxylated, phosphate, compd. with N,N-dimethylcyclohexanamine 605-358-7 164383-18-0 No Information	0.1 - <1.0	H315-319-411 Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 915-687-0 1065336-91-5 01-2119491304-40	0.1 - <1.0	H317-361-400-410 Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Sens. 1A	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	1
			M-Factor: (chronic)	1
hydrocarbons, c9, aromatics 918-668-5 128601-23-0 01-2119455851-35	0.1 - <1.0	H226-304-335-336-411 Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 3, Skin Cracking, STOT SE 3 NE, STOT SE 3 RTI	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
Methanol 200-659-6 67-56-1 01-2119433307-44 603-001-00-X	0.1 - <1.0	H225-301-311-331-370 Acute Tox. 3 Dermal, Acute Tox. 3 Inhalation, Acute Tox. 3 Oral, Flam. Liq. 2, STOT SE 1	SCL Value:	H370: C ≥ 10 %~H371: 3 % ≤ C < 10 %
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-

trimethylolpropane 201-074-9 77-99-6 01-2119486799-10	0.1 - <1.0	H361fd Repr. 2	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-

Remarks: Note P

NANOFORMS

Siloxanes and Silicones, di-Me, reaction products with silica
67762-90-7
614-122-2

Distribution

D10: 9-62 nm
D50: 11-100 nm
D90: 14-100 nm

Shape: Spheroidal
Crystallinity: Amorphous
Treatment of the surface: Yes

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: Show this safety data sheet to the doctor in attendance.

AFTER INHALATION: Move to fresh air. Provide fresh air, rest and warmth. Call a physician immediately. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Do not use solvent or thinners to clean skin.

AFTER EYE CONTACT: Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

AFTER INGESTION: If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

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

May cause sensitization by skin contact. Irritating to eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11. When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Heating or fire conditions liberates toxic gas. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

5.3 Advice for firefighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Clean with detergents. Avoid solvents.

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Open drum carefully as content may be under pressure. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Apply technical measures to comply with the occupational exposure limits (see section 8). Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid heat, sparks, flames and other ignition sources.

STORAGE CONDITIONS: Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in upright position only. Storage of flammable liquids. Store away from: oxidising materials, acids, and alkalis.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (EU)

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
titanium dioxide	13463-67-7				
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8				
n-butyl acetate	123-86-4	50	150	723	241
Bis(neodecanoyloxy)dioctylstannane	68299-15-0				
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7				
reaction mass ethylbenzene - xylene	-				
isotridecylalcohol, ethoxylated, phosphate, compd. with N,N-dimethylcyclohexanamine	164383-18-0				
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5				
hydrocarbons, c9, aromatics	128601-23-0				
Methanol	67-56-1	200			260
trimethylolpropane	77-99-6				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
titanium dioxide	13463-67-7	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	
n-butyl acetate	123-86-4	
Bis(neodecanoyloxy)dioctylstannane	68299-15-0	
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	
reaction mass ethylbenzene - xylene	-	
isotridecylalcohol, ethoxylated, phosphate, compd. with N,N-dimethylcyclohexanamine	164383-18-0	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5	
hydrocarbons, c9, aromatics	128601-23-0	
Methanol	67-56-1	
trimethylolpropane	77-99-6	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation. Annotations: Carc = Capable of causing cancer and/or heritable genetic damage, Sen = Capable of causing occupational asthma, Sk = Can be absorbed through the skin.

Chemical Name:

titanium dioxide

EC No.:

236-675-5

CAS-No.:

13463-67-7

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							700 mg/kg/ bw/ day
Inhalation			5 mg/m ³				5 mg/m ³	
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.127 mg/L
Fresh water sediments	1000 mg/kg dw
Marine water	1 mg/L
Marine sediments	100 mg/kg dw
Food chain	1667 mg/kg (oral)
Microorganisms in sewage treatment	100 mg/kg
soil (agricultural)	100 mg/kg dw
Air	

Chemical Name:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

EC No.:

219-784-2

CAS-No.:

2530-83-8

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							12.5 mg/kg bw/ day
Inhalation		147 mg/m ³		147 mg/m ³				
Dermal		21 mg/kg bw/ day		21 mg/kg bw/day				12.5 mg/kg bw/ day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	1 mg/l
Fresh water sediments	0.79 mg/kg
Marine water	0.1 mg/l
Marine sediments	360 µg/kg sediment dw
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	140 µg/kg soil dw
Air	

Chemical Name:

n-butyl acetate

EC No.:

204-658-1

CAS-No.:

123-86-4

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					2 mg/kg bw/day - neurotoxicity-		2 mg/kg bw/day -neurotoxicity-
Inhalation	300 mg/m ³ (irritation (respiratory tract))	600 mg/m ³	300 mg/m ³	48 mg/m ³	300 mg/m ³ (irritation (respiratory tract))	300 mg/m ³ (irritation (respiratory tract))	35.7 mg/m ³ (irritation (respiratory tract))	12 mg/m ³
Dermal		11 mg/kg bw/day - neurotoxicity-		7 mg/kg bw/day	No hazard identified	6 mg/kg bw/day - neurotoxicity		3.4 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.18 mg/l
Fresh water sediments	0.981 mg/kg
Marine water	0.018 mg/l
Marine sediments	0.0981 mg/kg
Food chain	
Microorganisms in sewage treatment	35.6 mg/L
soil (agricultural)	0.0903 mg/kg
Air	

Chemical Name:

reaction mass ethylbenzene - xylene

EC No.:

905-588-0

CAS-No.:

-

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					260 mg/m ³		1.6 mg/kg bw/day
Inhalation	442 mg/m ³	442 mg/m ³	221 mg/m ³	221 mg/m ³	260 mg/m ³		65.3 mg/m ³	65.3 mg/m ³
Dermal				212 mg/kg bw/day				125 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0,327 mg/L
Fresh water sediments	12.46 mg/kg sediment dw
Marine water	0,327 mg/L
Marine sediments	12.46 mg/kg sediment dw
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	2.31 mg/kg soil dw
Air	

Chemical Name:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

EC No.:

915-687-0

CAS-No.:

1065336-91-5

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					1.25 mg/kg		1.25 mg/kg
Inhalation		2.35 mg/m3		2.35 mg/m3		0.58 mg/m3		0.58 mg/m3
Dermal		2.5 mg/kg		2.5 mg/kg		1.25 mg/kg		1.25 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.0022 mg/l
Fresh water sediments	1.05 mg/kg
Marine water	0.00022 mg/l
Marine sediments	0.11 mg/kg
Food chain	
Microorganisms in sewage treatment	1 mg/l (as sewage treatment)
soil (agricultural)	0.21 mg/kg
Air	

Chemical Name:

hydrocarbons, c9, aromatics

EC No.:

918-668-5

CAS-No.:

128601-23-0

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							11 mg/kg bw/day
Inhalation				150 mg/m3				32 mg/m3
Dermal				25 mg/kg bw/day				11 mg/kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

Chemical Name:

Methanol

EC No.:

200-659-6

CAS-No.:

67-56-1

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					8 mg/kg/day		8 mg/kg/day
Inhalation	260 mg/kg/day	260 mg/m ³	260 mg/m ³	260 mg/m ³	50 mg/m ³	50 mg/m ³	50 mg/m ³	50 mg/m ³
Dermal		40 mg/kg/day		40 mg/kg/day		8 mg/kg/day		8 mg/kg/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	154 mg/L
Fresh water sediments	
Marine water	15.4 mg/L
Marine sediments	570.4 mg/kg
Food chain	
Microorganisms in sewage treatment	100 mg/L
soil (agricultural)	23.5 mg/L
Air	

8.2 Exposure controls**Personal Protection**

RESPIRATORY PROTECTION: Use compressed air or fresh air breathing apparatus in closed compartments. Wear respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust). When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used.

EYE PROTECTION: Face-shield. Safety glasses with side-shields conforming to EN 166.

HAND PROTECTION: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Body Protection: Long sleeved clothing.
Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location.

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

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

Colour:	Various colors
Physical State	Liquid
Odor	None/uncharacteristic
Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	127 - 280

Flash Point, (°C)	26
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Lower and upper explosive limit	Not determined
Vapour Pressure	Not determined
Relative vapour density	> 1 (air = 1)
Density and/or relative density	1.33 - 1.43
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	370
Decomposition temperature (°C)	Not determined
Kinematic viscosity	75 - 80 KU
Explosive properties	Not determined
Oxidising properties	Not determined
Particle characteristics	Not applicable to liquids

Nanoform in mixture

Siloxanes and Silicones, di-Me, reaction products with silica 67762-90-7 614-122-2	Solubility:	Soluble (~159.4 mg/L improved
	NoctanoWater:	OECD 105; photometer)
	Particulate Characteristics:	
		See sec. 3.2

9.2 Other information

Specific Gravity (g/cm ³)	1.38
VOC Directive 2010/75/UE	No Information

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

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No reactivity hazards known under normal storage and use conditions.

10.4 Conditions to avoid

Avoid heat, sparks, flames and other ignition sources.

10.5 Incompatible materials

Keep away from strong oxidising agents and strongly acid or alkaline materials.

10.6 Hazardous decomposition products

In case of fire or hot work operations, **hazardous decomposition products** may be formed such as: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), aliphatic amines, aldehydes.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute Toxicity:**

Oral LD50: No information available on the product itself as the product is not tested.

Inhalation LC50: No information available on the product itself as the product is not tested.

Dermal LD50: No information available on the product itself as the product is not tested.

Irritation: No information available.

Corrosivity: Causes serious eye damage.

Sensitization: May cause an allergic skin reaction.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
13463-67-7	titanium dioxide	>5000 mg/kg (oral-rat)	10000 mg/kg	No information	No information	>6.82 mg/L (inh-rat-4h)
2530-83-8	[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	8025 mg/kg (oral-rat)	4250 mg/kg (dermal-rabbit)	>5300 mg/L (inh/4h/aerosols/rat)	No information	No information
123-86-4	n-butyl acetate	10760 mg/kg (rat-oral)	14112 mg/Kg (rabbit-dermal)	23 mg/l/4/h (rat)	> 20000 ppm	No information
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	6350 mg/kg (oral-rat)	>2000 mg/kg (dermal-rat)	No information	No information	No information
-	reaction mass ethylbenzene - xylene	3523 mg/kg bw, rat	1100 mg/kg dermal, rat	11 mg/kg/4h inhalation, rat	No information	No information
164383-18-0	isotridecylalcohol, ethoxylated, phosphate, compd. with N,N-dimethylcyclohexanamine	>2500 mg/kg				
128601-23-0	hydrocarbons, c9, aromatics	3592 mg/kg	>3160 mg/kg	>20 mg/L	> 20000 ppm	>5 mg/l
67-56-1	Methanol	;2080 mg/kg rat oral	;15800 mg/kg rabbit	;83,78 mg/L rat	64000 ppm	

Additional Information:

Corrosive - causes irreversible eye damage. Chronic exposure causes drying effect on the skin and eczema. Chronic exposure has been associated with various neurotoxic effects including permanent brain damage. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs.

11.2 Information on other hazards

Endocrine disrupting properties - Toxicity

Name According to EEC

CAS-No.

No Information

SECTION 12: Ecological Information**12.1 Toxicity:**

EC50 48hr (Daphnia):

No information

IC50 72hr (Algae):

No information

LC50 96hr (fish):

No information

12.2 Persistence and degradability:

No information

12.3 Bioaccumulative potential:

No information

12.4 Mobility in soil:

No information

12.5 Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

12.6 Endocrine disrupting properties**Endocrine disrupting properties - Ecotoxicity**

Name According to EEC

CAS-No.

No Information

12.7 Other adverse effects:

No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
13463-67-7	titanium dioxide	>1000 mg/L (LC50, statisk, Daphnia magna, OECD202)	>100 mg/L (EC50, statisk, Pseudokirchnerella subcapitata, OECD201)	>1000 mg/L (LC50, statisk, Pimephales promelas, EPA-540/9-85-006)
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	324 mg/L (Daphnia magna)	No information	55 mg/L (cyprinus carpio)
123-86-4	n-butyl acetate	44 mg/L (Daphnia)	648 mg/L (Desmodesmus subspicatus)	18 mg/L (Pimephales promelas)
68299-15-0	Bis(neodecanoyloxy)dioctylstannane	No information	No information	
-	reaction mass ethylbenzene - xylene	1 mg/l (Daphnia magna)	2.2 mg/l (Pseudokirchneriella subcapitata)	2.6 mg/l (Oncorhynchus mykiss)
164383-18-0	isotridecylalcohol, ethoxylated, phosphate, compd. with N,N-dimethylcyclohexanamine	No information	No information	No information
1065336-91-5	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No information	No information	0.97 mg/L (Lepomis macrochirus)
128601-23-0	hydrocarbons, c9, aromatics	3.2 mg/L (Daphnia Magna)	No information	No information
77-99-6	trymethylolpropane	13000 mg/L (EC50, Daphnia magna)	>1000 mg/L (EC50, Pseudokirchneriella subcapitata)	>1000 mg/L (LC50, Albumus albumus)

SECTION 13: Disposal Considerations

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

European Waste Code: 08 01 11*

Packaging Waste Code: 15 01 10*

SECTION 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
14.1 UN-number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)	3	3	3	3
14.4 Packing Group	III	III	III	III
14.5 Enviromental Hazards	Environmental Hazard: NO	Environmental Hazard: NO	Marine Pollutant: NO	Environmental Hazard: NO

14.6 Special precautions for user Not applicable

EmS-No.: F-E, S-E

14.7 Maritime transport in bulk according to IMO intruments Not applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

National Regulations:

Denmark Product Registration Number: Not available

Danish MAL Code: Not available

Danish MAL Code - Mixture:	Not available
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	Not available
Germany WGK Class:	Not available
Directive 2004/42/CE:	VOC ready to use 345g/L with 15% of thinner (subcat j:500 g/L)
Covered by Directive 2012/18/EC (Seveso III):	P5c
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Entry 20

Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

<u>CAS-No.</u>	<u>Name According to EEC</u>
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Not Applicable	
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SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

<u>CAS-No.</u>	<u>Name According to EEC</u>
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Not Applicable	
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15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361fd	Suspected of damaging fertility or the unborn child.
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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Reasons for revision

Composition Information Changed

Substance and/or Product Properties Changed in Section(s):

- 01 - Identification
- 03 - Composition/Information On Ingredients
- 08 - Exposure Controls/Personal Protection
- 09 - Physical and Chemical Properties
- 11 - Toxicological Information
- 12 - Ecological Information
- 13 - Disposal Information
- 14 - Transportation Information
- 15 - Regulatory Information

Substance CAS Number Changed

Revision Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits

VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

