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

Product Name: WINDMASTIC TOPCOAT HSX REP. KIT PART A - GREY/WHITE

Revision Date: 16/03/2023

Supercedes Date: 04/01/2023

Version Number: 4

UFI Code: 5P32-G0KT-900M-VS2T

Nano Form: No

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: WINDMASTIC TC HSX REP. KIT PART B

Mixing ratio by volume Part A/ Part B: 5:1

1.3 Details of the supplier of the safety data sheet

Importer: None

Manufacturer:

Carboline Norge AS
Postboks 593
3412 Lierstranda
Norway

Regulatory / Technical Information:
+47 32 85 73 00
+47 32 85 74 00

Datasheet Produced by: Tarka, Malgorzata - hms@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

Skin drying or cracking	EUH066
Flammable Liquid, category 3	H226
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
STOT, single exposure, category 3, RTI	H335
Hazardous to the aquatic environment, Chronic, category 3	H412

2.2 Label elements

Symbol(s) of Product

Signal Word

Warning

Named Chemicals on Label

ethylbenzene, hydrocarbons, c9, aromatics, xylene, mica, Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

HAZARD STATEMENTS

Skin drying or cracking	EUH066	Repeated exposure may cause skin dryness or cracking.
Other EU extensions	EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful to aquatic life with long lasting effects.

PRECAUTION PHRASES

P261	Avoid breathing 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.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P403+235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to waste treatment/disposal facility in accordance with local, state, and federal regulations.

2.3 Other hazards

No Information

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

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

Endocrine disrupting properties - Ecotoxicity

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

SECTION 3: Composition/Information On Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous ingredients

Name According to EEC EINECS No. CAS-No. REACH Reg No.	%	Classifications	SCL Value ATE Value M-Factor	
titanium dioxide 236-675-5 13463-67-7 01-2119489379-17	10 - <25		**SCL:** **ATE:** **M-Factor:**	- - -
mica 601-648-2 12001-26-2 -	10 - <25	H319-335 Eye Irrit. 2, STOT SE 3 RTI	**SCL:** **ATE:** **M-Factor:**	- - -
n-butyl acetate 204-658-1 123-86-4 01-2119485493-29	2.5 - <10	H226-336 Flam. Liq. 3, Skin Cracking, STOT SE 3 NE	**SCL:** **ATE:** **M-Factor:**	- - -

2-ethoxy-1-methylethyl acetate 259-370-9 54839-24-6 01-2119475116-39	2.5 - <10	H226-336 Flam. Liq. 3, STOT SE 3 NE	**SCL:** **ATE:** **M-Factor:**	- - -
xylene 215-535-7 1330-20-7 01-2119488216-32	2.5 - <10	H226-304-312-315-319-332-335-373-412 Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 3, Skin Irrit. 2, STOT RE 2, STOT SE 3 RTI	**SCL:** **ATE:** **M-Factor:**	- - -
silicon dioxide (amorphous) 231-545-4 7631-86-9 01-2119379499-16	2.5 - <10		**SCL:** **ATE:** **M-Factor:**	- - -
hydrocarbons, c9, aromatics 918-668-5 64742-95-6 01-2119455851-35	1.0 - <2.5	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:** **ATE:** **M-Factor:**	- - -
ethylbenzene 202-849-4 100-41-4 01-2119489370-35	1.0 - <2.5	H225-304-332-373-412 Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Flam. Liq. 2, STOT RE 2	**SCL:** **ATE:** **M-Factor:**	- - -

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 915-687-0 1065336-91-5 01-2119491304-40	0.1 - <1.0	H317-361F-400-410 Aquatic Acute 1, Aquatic Chronic 1, Repr. 2, Skin Sens. 1A	**SCL:** **ATE:** **M-Factor:**	- - -
quartz (silicon dioxide) - 14808-60-7 -	0.1 - <1.0	H372 STOT RE 1	**SCL:** **ATE:** **M-Factor:**	- - -
trimethylolpropane - 77-99-6 -	0.1 - <1.0	H361fd Repr. 2	**SCL:** **ATE:** **M-Factor:**	- - -

Remarks: CAS No 13463-67-7: Note 10
CAS numbers 41556-26-7 and 82919-37-7 are registered in REACH with REACH No. 01-2119491304-40, CAS number 1065336-91-5, and EC number 915-687-0.

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

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: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

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

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

Harmful by inhalation. Irritating to eyes. Irritating to respiratory system. May cause sensitization by skin contact.

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, Water Fog

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

Fire will produce dense black smoke containing hazardous combustion products (see section 10). Heating or fire conditions liberates toxic gas. Flash back possible over considerable distance. 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

In the event of fire, wear self-contained breathing apparatus. 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

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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. 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. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease

should not be employed in any process in which this preparation is being used.
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)

The mixing and application to be in accordance with the technical data sheets.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (EU)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
titanium dioxide	13463-67-7				
mica	12001-26-2				3
n-butyl acetate	123-86-4	50	150	723	241
2-ethoxy-1-methylethyl acetate	54839-24-6				
xylene	1330-20-7	50	100	442	221
silicon dioxide (amorphous)	7631-86-9				
hydrocarbons, c9, aromatics	64742-95-6				
ethylbenzene	100-41-4	100	200	884	442
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	1065336-91-5				
quartz (silicon dioxide)	14808-60-7				
trimethylolpropane	77-99-6				

Name	CAS-No.	OEL Note
titanium dioxide	13463-67-7	
mica	12001-26-2	
n-butyl acetate	123-86-4	
2-ethoxy-1-methylethyl acetate	54839-24-6	
xylene	1330-20-7	Can be absorbed through the skin.
silicon dioxide (amorphous)	7631-86-9	
hydrocarbons, c9, aromatics	64742-95-6	
ethylbenzene	100-41-4	Can be absorbed through the skin.
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	1065336-91-5	
quartz (silicon dioxide)	14808-60-7	
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

	Workers				Consumers			
Route of Exposure	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						10 mg/m³	700 mg/kg/ bw/ day
Inhalation			10 mg/m³					
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:

n-butyl acetate

EC No.: 204-658-1

CAS-No.: 123-86-4

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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				300 mg/m³ (irritation (respiratory tract))	2 mg/kg bw/ day - neurotoxicity-	35.7 mg/m³ (irritation (respiratory tract))	2 mg/kg bw/day - neurotoxicity-
Inhalation	600 mg/m³ (irritation (respiratory tract))	600 mg/m³	300 mg/m³	300 mg/m³				35.7 mg/m³
		11 mg/kg bw/ day - neurotoxicity-		11 mg/kg bw/day		300 mg/m³ (irritation (respiratory tract))		6 mg/kg bw/day
Dermal					No hazard identified			
						6 mg/kg bw/ day - neurotoxicity		

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.18 mg/L
Fresh water sediments	0.981 mg/kg dw
Marine water	0.018 mg/L
Marine sediments	0.098 mg/kg dw
Food chain	
Microorganisms in sewage treatment	35.6 mg/L
soil (agricultural)	0.09 mg/kg
Air	

Chemical Name:

2-ethoxy-1-methylethyl acetate

EC No.: 259-370-9

CAS-No.: 54839-24-6

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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							
Inhalation								
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	2 mg/L
Fresh water sediments	9.2 mg/kg
Marine water	0.2 mg/L
Marine sediments	0.92 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	0.67 mg/kg
Air	

Chemical Name:

xylene

EC No.: 215-535-7

CAS-No.: 1330-20-7

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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				174 mg/m³	174 mg/m³		1.6 mg/kg bw/ day
Inhalation	289 mg/m³	289 mg/m³	77 mg/m³	77 mg/m³				14.8 mg/m³
Dermal				180 mg/kg bw/ day				108 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
Marine water	0.327 mg/L
Marine sediments	12.46 mg/kg
Food chain	
Microorganisms in sewage treatment	6.58 mg/L
soil (agricultural)	2.31 mg/kg
Air	

Chemical Name:

silicon dioxide (amorphous)

EC No.: 231-545-4

CAS-No.: 7631-86-9

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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							
Inhalation				4 mg/m³				
Dermal								

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:

ethylbenzene

EC No.: 202-849-4

CAS-No.: 100-41-4

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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							1.6 mg/kg bw/ day
Inhalation	293 mg/m3			77 mg/m3				
Dermal				180 mg/kg bw/ day				15 mg/m3

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.1 mg/L
Fresh water sediments	13.7 mg/kg
Marine water	0.01 mg/L
Marine sediments	1.37 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	2.68 mg/kg
Air	

Chemical Name:

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

EC No.: 915-687-0

CAS-No.: 1065336-91-5

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	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							0.18 mg/kg bw/ day
Inhalation				1.27 mg/m3				0.31 mg/m3
Dermal				1.8 mg/kg bw/ day				0.9 mg/kg bw/ day

PNEC's - Predicted no effect concentration

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

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: 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: If splashes are likely to occur, wear: Face-shield, tightly fitting safety goggles (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). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Nitrile rubber. Butyl rubber. Viton®. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.

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	Misc. colours
Physical State	LIQUID
Odor	Solvent
Odor threshold	Not determined
pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	124 - 200
Flash Point, (°C)	26
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Lower and upper explosive limit	0.7 - 9.8
Vapour Pressure	Not determined

Relative vapour density	>1 (air = 1)
Density and/or relative density	1.4 - 1.5
Solubility in / Miscibility with water	Negligible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	325
Decomposition temperature (°C)	Not determined
Kinematic viscosity	83 - 87 KU
Particle characteristics	Not applicable to liquids

9.2 Other information

VOC Content g/l: 350

Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.

Specific Gravity (g/cm3) 1.47

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 monoxide (CO), carbon dioxide (CO_2), oxides of nitrogen (NOx).

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:	Causes serious eye irritation.
Corrosivity:	No information available.
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: Vapour/spray mist may irritate respiratory system and lungs.

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:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
13463-67-7	titanium dioxide	>5000 mg/kg (oral-rat)	10000 mg/kg	No information	No information	>6.82 mg/L (inh-rat-4h)
12001-26-2	mica	>5000 mg/kg (oral-rat)	No information	No information	No information	No information
123-86-4	n-butyl acetate	10760 mg/kg (rat-oral)	14112 mg/Kg (rabbit-dermal)	23.4 mg/l/4/h (rat)	No information	No information
54839-24-6	2-ethoxy-1-methylethyl acetate	4755 mg/kg (oral-rat)	No information	No information	No information	No information
1330-20-7	xylene	>2000 mg/kg (oral-rat)	1100 mg/kg (ATE dermal-rabbit)	11 mg/L (ATE inh/vapour)	4500 ppmV (ATE inh - Gas)	1.5 mg/L (ATE inh/dust/mist)
7631-86-9	silicon dioxide (amorphous)	>5110 mg/kg (oral, rat)	> 5000 mg/kg (dermal, rabbit)	No information	No information	No information
64742-95-6	hydrocarbons, c9, aromatics	3492 mg/kg (oral-rat)	>3160 mg/kg (dermal-rabbit)	>6193 mg/L (inh-rat-vapour,4h)	No information	No information
100-41-4	ethylbenzene	3500 mg/kg rat, oral	5001 mg/kg, rabbit	17.2 mg/L. rat, 4h	10000 ppm	1.5 mg/L
1065336-91-5	Reaction mass of Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	>2000 mg/kg (oral-rat)	>3000 mg/kg (dermal-rat)	No information	No Information	No Information

Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Respiration of solvent vapour may cause dizziness. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. Chronic exposure causes drying effect on the skin and eczema. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Gas or vapour is harmful on prolonged exposure or in high concentrations. Irritant of eyes and mucous membranes. CNS depressant. Inhalation is the main hazard in industrial use. The solvent vapours can be harmful and cause headaches, nausea, and intoxication. Acts as a defatting agent on skin. This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. 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

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

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

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

12.7 Other adverse effects: No information

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
13463-67-7	titanium dioxide	>100 mg/l (EC50, 48h, Daphnia magna OECD202)	16 mg/l (EC50, 72h, Pseudokirchnerella subcapitata)	>100 mg/l (EC50, 96h, Oncorhynchus Mykiss OECD203)
123-86-4	n-butyl acetate	44 mg/L (Daphnia magna)	648 mg/L (Desmodesmus subspicatus)	18 mg/L (Pimephales promelas)
54839-24-6	2-ethoxy-1-methylethyl acetate	110 mg/L (Daphnia magna)	No information	140 mg/L (Rainbow trout)
1330-20-7	xylene	1 - 5 mg/L (Daphnia magna)	3 - 5 mg/L (Selenastrum sp.)	2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrichirus), 21.0 mg/L (Pimephales promelas)
7631-86-9	silicon dioxide (amorphous)	No information	No information	10000 mg/l (Brachydanio rerio - Static)
64742-95-6	hydrocarbons, c9, aromatics	3.2 mg/L (Daphnia magna)	No information	9.2 mg/L (Oncorhynchus mykiss)
100-41-4	ethylbenzene	1.8 - 2.4 mg/L (Daphnia magna)	5.4 mg/L (Pseudokirchneriella subcapitata)	4.2 mg/L (Oncorhynchus mykissl)
1065336-91-5	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	No information	1.68 mg/L (desmodesmus subspicatus)	0.9 mg/L (brachydanio rerio)

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	Marine pollutant: No	Marine pollutant: No	Marine pollutant: No	Marine pollutant: No

14.6 Special precautions for user Not applicable
EmS-No.: F-E, S-E

14.7 Maritime transport in bulk according to IMO instruments 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: 3 - 5

Danish MAL Code - Mixture: 3 - 5

Sweden Product Registration Number: Not available

Norway Product Registration Number: P-318147

WGK Class: 3

Covered by Directive 2012/18/EC (Seveso III): P5c

Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006: Entry 3, 40

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

CAS-No.	Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

CAS-No.	Name According to EEC

Not Applicable

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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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

Changes have been made to Section 15 of the Safety Data Sheet (SDS). Please refer to the Regulatory Information in Section 15 of this SDS.

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) 1907/2006 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
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 ≤ 10 µm.

For further information, please contact: Regulatory 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.