

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 J177A Revision Date: 18/10/2024

Product Name: SP-2882 - A Supersedes Date: 21/06/2023

Version Number: 3

UFI Code: P41K-K1JB-100W-YN82

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. Please see Technical Data

Sheet. Advised against: others than recommended

Product to be mixed with: SP-2882 - B

Mixing ratio by volume Part A/

Part B:

1.75 / 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

Datasheet Produced by:

Paiotta, Alice - 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

Flammable Liquid, category 3	H226
Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Germ Cell Mutagenicity, category 2	H341
STOT, repeated exposure, category 2	H373
Hazardous to the aquatic environment, Chronic, category 2	H411

2.2 Label elements

Symbol(s) of Product



Signal Word

Warning

Named Chemicals on Label

2,3-epoxypropyl o-tolyl ether, quartz (silicon dioxide), Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

HAZARD STATEMENTS

Other EU extensions	EUH205	Contains epoxy constituents. May produce an allergic reaction.
Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Germ Cell Mutagenicity, category 2	H341	Suspected of causing genetic defects.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.
PRECAUTION PHRASES		
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment.
	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.
	P308+313	IF exposed or concerned: Get medical advice/attention.

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

Name According to EEC CAS-No.

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

Name According to EEC

CAS-No.

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 EINEC No. CAS-No. REACH Reg No.	<u>%</u>	<u>Classifications</u>	ļ	SCL Value: ATE Value: M-Factor:
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700) 500-033-5 25068-38-6 01-2119456619-26 603-074-00-8	50 - <75	H315-317-319-411 Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1	SCL Value: ATE Value: M-Factor: (acute)	H315: C ≥ 5 % H319: C ≥ 5 %
			M-Factor: (chronic)	-
2,3-epoxypropyl o-tolyl ether 218-645-3 2210-79-9 No Information	1.0 - <2.5	H315-317-341-411 Aquatic Chronic 2, Muta. 2, Skin Irrit. 2, Skin Sens. 1	SCL Value: ATE Value: M-Factor: (acute) M-Factor: (chronic)	-

quartz (silicon dioxide) 238-878-4	1.0 - <2.5	H372	SCL Value:	-
14808-60-7		STOT RE 1	ATE Value:	-
		STOTALT	M-Factor: (acute)	-
			M-Factor: (chronic)	-
reaction mass ethylbenzene - xylene	0.1 - <1.0	H226-304-312-315-319-332-335-373-412	SCL Value:	-
905-588-0 01-2119539452-40			ATE Value:	-
01-2119559452-40		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	M-Factor: (acute)	-
			M-Factor: (chronic)	-
xylene 215-535-7	0.1 - <1.0	H226-304-312-315-319-332-335-373-412	SCL Value:	-
1330-20-7 01-2119488216-32		Acute Toy 4 Dermal Acute Toy 4 labelation	ATE Value:	-
601-022-00-9		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	M-Factor: (acute)	-
			M-Factor: (chronic)	-
ethylbenzene 202-849-4	0.1 - <1.0	H225-304-332-373-412	SCL Value:	-
100-41-4 01-2119489370-35		Acute Tox. 4 Inhalation, Aquatic Chronic 3,	ATE Value:	-
601-023-00-4		Asp. Tox. 1, Flam. Liq. 2, STOT RE 2	M-Factor: (acute)	-
			M-Factor: (chronic)	-

maleic anhydride 203-571-6	<0.1	H302-314-317-334-372	SCL Value:	Skin Sens. 1A; H317: C ≥ 0,001 %
108-31-6 01-2119472428-31			ATE Value:	-
607-096-00-9		Acute Tox. 4 Oral, Corr. Resp., Resp. Sens. 1, Skin Corr. 1B, Skin Sens. 1A, STOT RE 1	M-Factor: (acute)	-
			M-Factor: (chronic)	-

Remarks: CAS No. 25068-38-6 identified as CAS No. 1675-54-3, EC No. 216-823-5 under REACH Registration

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 Amorphous Crystalinity:

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: 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: 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 damage to organs through prolonged or repeated exposure. May cause sensitization by skin contact. Danger of serious damage to health by prolonged exposure. Irritating to eyes and skin. Suspected of causing genetic defects.

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. 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).

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. Wear personal protective equipment. 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. Apply technical measures to comply with the occupational exposure limits (see section 8). People handling polyurethane or epoxy products must have received special training according to guidelines from the National Occupational Health and Safety Board. 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.

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>	CAS-No.	LTEL p	opm STEL pp	om STEL mg/m3	LTEL mg/m3
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6				
2,3-epoxypropyl o-tolyl ether	2210-79-9				
quartz (silicon dioxide)	14808-60-7				
reaction mass ethylbenzene - xylene					
xylene	1330-20-7	50	100	442	221
ethylbenzene	100-41-4	100	200	884	442
maleic anhydride	108-31-6				
<u>Name</u>	CAS-No.	OEL Note			
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6				
2,3-epoxypropyl o-tolyl ether	2210-79-9				
quartz (silicon dioxide)	14808-60-7				
reaction mass ethylbenzene - xylene					
xylene	1330-20-7	Sk			
ethylbenzene	100-41-4	Sk			
maleic anhydride	108-31-6				

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:

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

EC No.: CAS-No.: 500-033-5 25068-38-6

DNELs - Derived no effect level

	Workers					Consumers		
Route of	Acute effect	Acute effects	Chronic effects	Chronic effects	Acute effect	Acute effects	Chronic effects	Chronic effects
Exposure	local	systemic	local	systemic	local	systemic	local	systemic
Oral	Not required					0.75 mg/kg		0.75 mg/kg bw/
					bw/day		day	
Inhalation		12.25 mg/m3		12.25 mg/m3				
Dermal		8.33 mg/kg		8.33 mg/kg bw/		3.571 mg/kg		3.571 mg/kg bw/
		bw/day		day		bw/day		day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.006 mg/l
Fresh water sediments	0.996 mg/L
Marine water	0.0006 mg/l
Marine sediments	0.0996 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	0.196 mg/kg
Air	

Chemical Name:

reaction mass ethylbenzene - xylene

EC No.: CAS-No.:

905-588-0

DNELs - Derived no effect level

	Workers				Consumers			
Route of	Acute effect	Acute effects	Chronic effects	Chronic effects	Acute effect	Acute effects	Chronic effects	Chronic effects
Exposure	local	systemic	local	systemic	local	systemic	local	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/				125 mg/kg bw/
	_			day				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:

xylene

EC No.: CAS-No.: 215-535-7 1330-20-7

DNELs - Derived no effect level

		Wo	orkers		Consumers			
Route of	Acute effect	Acute effects	Chronic effects	Chronic effects	Acute effect	Acute effects	Chronic effects	Chronic effects
Exposure	local	systemic	local	systemic	local	systemic	local	systemic
Oral	Not required				1.6 mg/kg			1.6 mg/kg bw/day
Inhalation	289 mg/m ³	289 mg/m ³		77 mg/m³	174 mg/m ³	174 mg/m³		14.8 mg/m ³
Dermal				180 mg/kg bw/				108 mg/kg bw/
				day				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:

maleic anhydride

EC No.: CAS-No.: 203-571-6 108-31-6

DNELs - Derived no effect level

	Workers			Consumers				
Route of	Acute effect	Acute effects	Chronic effects	Chronic effects	Acute effect	Acute effects	Chronic effects	Chronic effects
Exposure	local	systemic	local	systemic	local	systemic	local	systemic
Oral	Not required				0.1 mg/kg bw/		0.06 mg/kg bw/	
					_	day		day
Inhalation	0.2 mg/m3	0.2 mg/m3	0.081 mg/m3	0.081 mg/m3		0.25 mg/m3	0.08 mg/m3	0.5 mg/m3
Dermal	0.04 mg/kg	0.04 mg/kg	0.04 mg/kg	0.04 mg/kg bw/				0.1 mg/kg bw/day
	bw/day	bw/day	bw/day	day				

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.038 mg/L
Fresh water sediments	0.296 mg/kg
Marine water	0.004281 mg/L
Marine sediments	0.0334 mg/kg
Food chain	
Microorganisms in sewage treatment	44.6 mg/L
soil (agricultural)	0.037 mg/L
Air	

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Wear a self-contained breathing apparatus or full-face airline respirator during spraying operations and long-term exposure. When working in confined or poorly ventilated spaces, a battery powered assisted air-fed mask must be used. When painting small areas, or when using a roller or brush, respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) may be used: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust).

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). 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.

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 Ероху

Odor threshold Not determined Ηq Not determined Melting point / freezing point (°C) Not determined

Boiling point or initial boiling point and boiling range (°C)

Not determined

Flash Point, (°C) 27

Evaporation rate Not determined Flammability (solid, gas) Not determined

Llower and upper explosive limit Not determined

Vapour Pressure Not determined Relative vapour density Heavier then air Density and/or relative density Not determined

Solubility in / Miscibility with water Negligible

Partition coefficient: n-octanol/water Not determined Auto-ignition temperature (°C) Not determined Decomposition temperature (°C) Not determined Kinematic viscosity Not determined

Particle characteristics Not applicable to liquids

Nanoform in mixure

Siloxanes and Silicones, di-Me, reaction products with

silica

67762-90-7 614-122-2

Solubility:

Soluble (~159.4 mg/L improved OECD 105;

NoctanoWater:

Partichle

Charactheristics:

See sec. 3.2

photometer)

9.2 Other information

VOC Content g/l: 70

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

Specific Gravity (g/cm3) 1,34

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under recommended storage and use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No reactivity hazards known under recommended 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 (NOx), aliphatic amines, aldehydes.

SECTION 11: Toxicological information

11.1 Information on hazard classes as definied in Regulation (EC) No 1272/2008

Acute Toxicity:

Oral LD50: No information available.

Inhalation LC50: No information available.

Dermal LD50: No Information

Irritation: Skin and eye irritation, category 2

Corrosivity: No information available.

Sensitization: Skin sensitizer, category 1

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: Suspected of causing genetic defects.

Toxicity for reproduction: No information available.

STOT-single exposure: STOT RE 1

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
25068-38-6	Reaction product: bisphenol- A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	5000 mg/kg (oral- rat)	>2000 mg/kg (dermal, rat M-F)	No information	No information	No information
2210-79-9	2,3-epoxypropyl o-tolyl ether	5800 mg/kg (oral, rat)	>2100 mg/kg (Dermal, rabbit)	1220 ppm/4 hr	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
1330-20-7	xylene	>2000 mg/kg (oral-rat)	1100 mg/kg (ATE dermal-rabbit)	11 mg/L (ATE inh/ vapour)	20001 ppm	>5 mg/l
100-41-4	ethylbenzene	3500 mg/kg rat, oral	5510 mg/kg, rabbit	4000 ppm, rat, 4h	10000 ppm	1.5 mg/L
108-31-6	maleic anhydride	1090 mg/kg (oral, rat)	2620 mg/kg (dermal, rabbit)	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. Chronic exposure causes drying effect on the skin and eczema. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated skin contact leads to irritation and to sensitisation, possible with cross-sensitisation to other epoxies. Chronic exposure has been associated with various neurotoxic effects including permanent brain damage. The product is irritating to the eyes and may cause sensitisation to the respiratory system. Swallowing concentrated chemical may cause severe internal injury. 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.

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

No information 12.2 Persistence and degradability:

No information 12.3 Bioaccumulative potential:

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

CAS-No. Name According to EEC

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
25068-38-6	Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	1.8 mg/l (Daphnia magna, EC50, 48h,static)	11 mg/l (Scenedesmus capricornutum,EC50r, 72h)	1.5 mg/L (Rainbow trout), 3.6 mg/L (fish)
2210-79-9	2,3-epoxypropyl o-tolyl ether	3.3 mg/L	5.1 mg/L	No information
	reaction mass ethylbenzene - xylene	1 mg/l (Daphnia magna)	2.2 mg/l (Pseudokirchneriella subcapitata)	2.6 mg/l (Oncorhynchus mykiss)
1330-20-7	xylene	165 mg/L (Daphnia magna 24h)	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)
100-41-4	ethylbenzene	1.37 mg/l	No information	32 mg/l (Bluegill)
108-31-6	maleic anhydride	42.81 mg/L (Daphnia magna)	74.35 mg/L (Pseudokirchneriella subcapitata)	75 mg/L (Oncorhynchus mykiss)

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: No Information Packaging Waste Code: No Information

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: YES (Epoxy resin)	Environmental Hazard: YES (Epoxy resin)	Marine pollutant: YES (Epoxy resin)	Environmental Hazard: YES (Epoxy resin)

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

14.7 Maritime transport in bulk according to IMO Not applicable

intruments

SECTION 15: Regulatory Information

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

National Regulations:

Denmark Product Registration Number:

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: 500 g/l (subcat j)

Covered by Directive 2012/18/EC (Seveso III): P5c, E2

Restrictions to product or to substances according

to Annex XVII, Regulation (CE) 1907/2006: Entry 3, 40

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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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 Revision Statement(s) Changed

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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 μm .

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.