SILICONES and more SAFETY DATA SHEET

Siliconesandmore.com Hofdwarsweg 20 6161DD Geleen, The Netherlands info@siliconesandmore.com

According to directive 1907/2006/EC, 2015/830 Edition: July 2019 Trade name: Flexpox Resin Page 1 from 17

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

 1.1
 Product identification:

 Product name:
 Flexpox Resin

 1.2
 Relevant identified uses of

 the substance or mixture and use not recommended :
 Use:Casting resin.

 1.3
 Details concerning

 the provider of the safety data sheet:
 Responsible distributor :

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 Use duesance 20

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<u>1.4</u> <u>Emergency telephone number:</u> Emergency telephone number: For Belgium: 070/245.245 For the Netherlands: 0031/30.247.88.88

SECTION 2: Hazard identification

2.1 <u>Classification of the substance or mixture:</u>

Classification according to Directive (EC) No. 1272/2008 and its amendments . The product is classified according to the applicable legislation. Classification in accordance with Regulation (EC) No. 1272/2008 as amended.

Health hazards

Skin corrosion/-irritation, Category 2 - H315: Causes skin irritation. Eye

irritation, Category 2 - H319: Causes severe eye irritation.

Skin sensitization, Category 1 - H317: May cause an allergic skin reaction.

(Chronic) Long-term aquatic hazard , Category 2 - H411: Toxic to aquatic organisms, with long-term effects.

For the full version of H-sentences as mentioned in this paragraph, see paragraph 16. <u>2.2 Label elements:</u>

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]: not applicable .

Hazard pictograms:



Signal WordWarning.Dangerousingredients to be labelled:

Reaction product of Epichlorohydrin/Bisphenol-A

- 1,6-Hexamethylenediol diglycidyl ether
- trimethylolpropane tricrylate
- 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane
- Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.
- 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:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319

Causes severe eye irritation.

H411 Toxic to aquatic organisms, with long-lasting effects. **Precautions Prevention:**

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P261 Avoid inhalation of dust/ ralso/ gas / mist/ vapor / spray mist .

P273 Prevent discharge into the environment.

P280 Wear protective gloves/ eye protection/ face protection .

Action:

P333 + P313 In case of skin irritation or rash: consult a doctor. P337 + P313 In case of persistent eye irritation: consult a doctor .

P362 + P364 Remove and wash contaminated clothing before using it again. <u>2.3 Other</u> hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) on levels of 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Description:

Chemical description : Modified epoxy resin

Chemical Name	Cas No.	Classification	Concentration (%)
	EC No/List	(Regulation (EC) No.	
	Registration	1272/008)	
Reaction product of	25036-25-3	Skin Irrit.2; H315	>= 20 - < 25
Epichlorohydrin/Bisphenol-A		Eye Irrit.2; H319	
		Skin Sens.1;	
1,6-Hexamethylenediol	933999-84-9	Skin Irrit.2; H315	>= 20 - < 25
diglycidyl ether	240-260-4	Eye Irrit.2; H319	
	01-2119463471-41	Skin Sens.1;	
		H317.	
trimethylolpropane tricrylate	15625-89-5	Skin Irrit.2; H315	>= 20 - < 25
	239-701-3	Eye Irrit.2; H319	
	01-2119489896-11	Skin Sens.1;	
		H317.	
		Aquatic Acute1; H400	
2,2-bis[4(2,3-	1675-54-3	Eye Irrit.2; H319	>= 12.5 - < 20
epoxypropoxy)pheny	216-823-5	Skin Irrit.2; H315	
I]- propane	01-2119456619-26	Skin Sens.1;	
		H317.	
Oxirane, mono[(C10-16-	Not assigned	Skin Sens.1; H317	>= 10 - < 12,5
alkyloxy)methyl] derivs.	/939-183-5	Aquatic Chronic2;	
	01-2119962192-39	H411.	
Propylene carbonate	108-32-7	Eye Irrit.2; H319.	>= 7 - < 10
	203-572-1/		
Silane, trimethoxy[3-	2530-83-8	Eye Dam.1; H318.	>=1 - < 3
(oxiranylmethoxy)propyl]	219-784-2		
	01-2119513212-58		
Reaction mass of	Not assigned	Skin Sens.1A; H317	>= 0.25 - < 0.5
bis(1,2,2,6,6-pentamethyl-4-	/	Aquatic Acute1; H400	
piperidyl) sebacate and		Aquatic Chronic1;	
methyl 1,2,2,6,6-		H410.	
pentamethyl-4-piperidyl			
Sebacate			

For explanation of the abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures:

General advice:

Keep warm and bring in a quiet environment. Present this safety data sheet to the doctor on duty. Take off contaminated clothing immediately.

When inhaled:

Bring in the fresh air. Keep victim

warm and calm .

In case of unconsciousness, apply stable lateral position and seek medical

help. If symptoms persist, consult a doctor.

In the event of irregular breathing or respiratory arrest, apply artificial ventilation.

When touched with the skin:

Wash off immediately with soap and plenty of

water. DO NOT use solvents or paint thinner.

When tampering with clothes, take off clothes.

If the skin irritation continues, consult a doctor.

In case of contact with the eyes:

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If eye irritation persists consult a specialist.

As far as it is easy to do, remove any contact lenses.

If swallowed:

Keep quiet.

Do not induce vomiting without medical advice.

Keep the respiratory system free.

If symptoms persist, consult a doctor.

4.2 Main acute and delayed symptoms and effects:

Symptoms: irritating

effects Redness

sensitizing effects

<u>4.3</u> Indication of the required immediate medical care and special treatment:

Treatment:

The procedure for first aid must be drawn up together with the company doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing agents: Suitable extinguishing agents: Foam Sand Carbon dioxide (CO2) Water mist Unsuitable extinguishing agents: Water spray jet 5.2 Special hazards _____ arising from the substance or mixture: Specific firefighting hazards : Heat can increase the pressure in sealed containers. Sealed containers near the fire cool with water mist. 5.3 Advice for firefighters:



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Special protective equipment for firefighters:

Wear a compressed air mask in case of fire. Using personal protective equipment .

Further information:

Avoid inhaling smoke in the event of fire and/or explosion.

Use extinguishing agents suitable for local conditions and the environment. Immediately

evacuate personnel to a safe environment.

Prevent extinguishing water from polluting surface water or groundwater systems.

Incineration residues and contaminated extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Measures in the event of accidental release of the substance or

mixture 6.1 Personal precautions, protective equipment and emergency

procedures: Personal precautions:

See the protective measures in paragraphs 7 and

8. Evacuate personnel to a safe environment.

Using personal protective equipment . Make

sure you have sufficient ventilation.

Inform the competent authority in the event of gas leaks, or in the event of run-offs in

waterways, soil or sewers. <u>6.2 Environmental precautions:</u>

Environmental precautions:

Prevent uncontrolled discharge of product into the environment.

Try to prevent the material from draining into sewer or watercourse.

In the event of significant leaks that cannot be contained, the local authority must be

informed. 6.3 Containment and cleaning methods and material:

Cleaning methods:

Incorporate into inert absorbent material (e.g. sand, pebble, acid binder, universal binder, sawdust).

Reduce spills and collect with non-combustible absorption materials, (e.g. sand, soil, diatome earth, vermiculite) and transfer to a vessel for removal according to local/national regulations (see paragraph 13).

Pick up and transfer in containers that are properly labeled. 6.4 Reference

to other headings:

For personal protection see section 8.

SECTION 7: Handling and storage:

7.1 Precautions for the safe handling of the substance or mixture:

Advice for safe handling:

Ensure sufficient air exchange and/or extraction at the workplace.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective clothing.

Persons suffering from skin sensitisation problems, asthma, allergies, chronic or recurrent respiratory diseases should not do work using this mixture.

Advice for protection against fire and explosion:

Keep away from open flame, hot surfaces and ignition sources.

Hygienic measures:

Make sure there is enough air exchange. Wash hands and face before work stoppage and immediately after using the product.

7.2 Conditions for safe storage, including incompatible products:

Requirements for storage spaces and containers:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in correctly labelled containers.



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Advice for mixed storage:

Keep away from oxidizingagents, strong acids or alkaline materials and amines. Keep product and empty packaging of heat and ignition sources removed. Keep away from food and beverages. Other data: Stable at normal room temperature and pressure. 7.3 Specific end-use: Specific use: Before using this substance/mixture, consult the technical guidelines. SECTION 8: Exposure control measures/personal protection Controlparameters: 8.1 The product does not contain any ingredients for which exposure values have been set. Derived no-effect doses (DNEL) in accordance with Regulation (EC) Number 1907/2006: 1,6-Hexamethylenediol diglycidyl ether: End use: Workers Route of exposure: Contact with skin Possible health conditions: Long-term - systemic effects Value: 2.8 mg/kg End Use: Workers Route of exposure: Inhalation Possible health conditions: Long-term - systemic effects Value: 4.9 mg/m3 2,2-bis[4(2,3-epoxypropoxy)phenyl]propane: End use: Workers Route of exposure: Contact with skin Possible health conditions: Acute - systemic effects, Long-term - systemic effects Value: 8.33 mg/kg End Use: Workers Route of exposure: Inhalation Possible health conditions: Acute - systemic effects, Long-term-local effects Value: 12.25 mg/m3 End use: Consumer Route of Exposure: Contact with skin Possible health conditions: Acute - systemic effects, Long-term - systemic effects Value: 3,571 mg/kg End Use: Consumer Route of Exposure: Ingestion Possible health conditions: Acute - systemic effects, Long-term - systemic effects Value: 0.75 mg/kg Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.: End use: Workers Route of exposure: Skin Possible health conditions: Long-term - systemic effects Value: 4 mg/kg Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: End use: Workers Route of exposure : Contact with skin Possible health conditions: Acute - systemic effects Value: 21 mg/kg

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Route of exposure: Inhalation Possible health conditions: Acute - systemic effects Value: 147 mg/m3 End use: Employees Possible health conditions: Long-term - systemic effects Value: 21 mg/kg End use: Employees Possible health conditions: Long-term - systemic effects Value: 147 mg/m3 Predicted concentration without effect (PNEC) in accordance with Regulation (EC) Number 1907/2006: 1,6-Hexamethylenediol diglycidyl ether: Sewage treatment plant Value: 1 mg/l Freshwater Value: 0,0115 mg/l Freshwater deposit Value: 0,283 mg/kg Seawater Value: 0,00115 mg/l Sea deposit Value: 0,0283 mg/kg Soil Value: 0,223 mg/kg 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane: Freshwater Value: 0,006 mg/l Seawater Value: 0,0006 mg/l Sporadic release Value: 0,018 mg/l Sewage treatment plant Value: 10 mg/l Freshwater deposit Value: 0,996 mg/kg Sea deposit Value: 0,0996 mg/kg Soil Value: 0,196 mg/kg Oxirane, mono[(C10-16-alkyloxy)methyl] denivs.: Freshwater Value: 0,0072 mg/l Freshwater deposit Value: 6,677 mg/kg Sewage treatment plant Value: 1 mg/l Seawater Value: 0,00072 mg/l Sea deposit Value: 0,6677 mg/kg Soil

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Value: 8012 mg/kg Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: Sewage treatment plant Value: 10 mg/l Freshwater Value: 1 mg/l Seawater Value: 0,1 mg/l Sporadic release Value: 1 mg/l Freshwater deposit Value: 0,79 mg/kg Soil Value: 0,13 mg/kg Exposure control measures : 8.2 **Technical means of control:** Effective exhaust ventilation system effective ventilation at all workplaces Personal protective equipment: Protection of the eyes: Do not wear contact lenses. Safety glasses with side screens according to EN 166 Provide eyewash devices and safety showers near the workplace. Protection of hands Material: Protective gloves according to EN 374. Skin and body protection: Protective clothing **Respiratory protection :**

Unless sufficient local exhaust ventilation is given, or exposure assessment shows that the exposures are within the recommended exposureguidelines, you should use respiratory protection .

In case of vapour formation, use a respirator with an approved filter type.

The equipment shall be in accordance with EN 14387

Apply technical measures to comply with mac values.

This can be achieved by good general extraction or, where practicable, local exhaust ventilation.

Protective measures:

Avoid contact with skin . Wear appropriate personal protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:Appearance:liquidColour:colourlessSmell:lightOdour thresholdvalue :Not implementedpH:Not implementedMelting/freezing point:Not applicableBoiling point/boiling range:> 200 °C

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Flash point: 100 °C Evaporation rate: Not carried out Upper explosion limit: Not applicable Lower explosion limit: Not applicable Not applicable Vapour pressure: Relative vapour density: Not implemented Density: 1,12 g/cm3 (25 °C) Bulk specific gravity: Not carried out Solubility: Solubility in other solvents: Not implemented Partition coefficient: n-octanol/water: No data available Ignition temperature: Not applicable Self-ignition temperature: Not applicable Method: No data available Viscosity Thermal decomposition: Viscosity, dynamic: 300 - 400 mPa.s (25 °C) Viscosity, kinematic: Not performed Not applicable Explosion properties : Oxidising properties: Not applicable 9.2 Other information Not implemented Surface tension: Sublimation point: Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under recommended storage conditions. 10.2 Chemical Stability: No decomposition if stored and applied as indicated. 10.3 Possible Dangerous Reactions: Dangerous reactions: Reacts with the following substances: Bases Strong oxidizing agents Avoid amines. 10.4 Conditions to be avoided: No decomposition if directions are followed. 10.5 Chemically interacting Materials: Materials to avoid: Incompatible with oxidizing agents. 10.6 **Dangerous Decomposition Products**: The following substances can be released from this product: Carbonmonoxide, carbon dioxide and unburned hydrocarbon (smoke).

SECTION 11: Toxicological information

11.1 Information on toxicological effects: Acute Toxicity Product: Acute oral toxicity: Remarks: No data available

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Acute inhalation toxicity : Notes: No data available Acute dermal toxicity: Remarks: No data available Acute toxicity (other route of administration): Notes: No data available Constituents: 1,6-Hexamethylenediol diglycidyl ether: Acute oral toxicity: LD50 (Rat): 2,900 mg/kg Method: OECD Test Guideline 401 GLP: yes Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes trimethylolpropane tricrylate: Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane: Acute oral toxicity: LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420 GLP: yes Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.: Acute oral toxicity: LD50 (Rat): 26,800 mg/kg Method: No data available. GLP: no Acute dermal toxicity: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: ves Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: Acute toxicity by inhalation: LC50 (Rat, male and female): > 5.3 mg/l Exposure time: 4 h Testatmosphere: dust/mist Method: Guideline test OECD 403 GLP: yes Acute dermal toxicity: LD50 (Rabbit, male): 4.250 mg/kg Method: Guideline test OECD 402 Skin corrosion/irritation

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Product: Remarks: No data available Ingredients: trimethylolpropane tricrylate: Type: Rabbit Result: Skin irritation 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane: Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: Skin irritation GLP: yes Oxirane, mono[(C10-16-alkyloxy)methyl] denivs.: Species: Rabbit Method: OECD test guideline 404 Result: No skin irritation GLP: yes Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation Serious eye damage/eye irritation Product: Remarks: No data available Ingredients: trimethylolpropane tricrylate: Type: Rabbit Method: Draize test Result: Eye irritation Oxirane, mono[(C10-16-alkyloxy)methyl] denivs.: Species: Rabbit Method: OECD Test Guideline 405 Result: No eye irritation GLP: ves Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: Species: Rabbit Method: OECD Test Guideline 405 Result: Danger of serious eye damage. Respiratory/skin sensitization Product: Remarks: No data available Ingredients: 1,6-Hexamethylenediol diglycidyl ether: Test Type: Mouse Local Lymph Node assay (LLNA) Route of Exposure: Skin Type: Mouse Method: OECD Test Guideline 429 Result: May cause hypersensitivity in contact with skin. GLP: yes trimethylolpropane tricrylate:

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Test type: Maximization test Route of exposure: Skin Type: Guinea pig Result: May cause hypersensitivity in contact with skin. 2,2bis[4(2,3-epoxypropoxy)phenyl]-propane: Test Type: Mouse Local Lymph Node assay (LLNA) Species: Mouse Method: OECD Test Guideline 429 Result: May cause hypersensitivity in contact with skin. GLP: yes Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.: Test type: Maximization test Route of exposure: Skin Type: Guinea pig Method: OECD Test Guideline 406 Result: May cause hypersensitivity in contact with skin. GLP: yes Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: Test type: Buehlertest Type: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause hypersensitivity of the skin. GLP: yes Germ Cell Mutagenicity Carcinogenicity Product: Remarks: No data available **Reproductive toxicity** Product: Effects on fertility: Notes: No data available Comments: No data available Effects on fetal development : Notes: No data available Notes: No data available STOT at single exposure Product: Notes: Not applicable STOT in case of repeated exposure Repeated dose toxicity Product: Remarks: No data available Aspirational gift Ingredients: 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane: No classification for aspiration toxicity. Further information Product: Remarks: No data available

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SECTION 12: Ecological information 12.1 Toxicit y: Product: Toxicity to fish: Remarks: No data available Toxicity to daphnias and other aquatic invertebrates: Remarks: No data available Ingredients: 1,6-Hexamethylenediol diglycidyl ether: Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbowtrout)): 30 mg/l Exposure time: 96 h Test type: semi-static test Method: OECD Test Guideline 203 GLP: yes Toxicity to daphnias and other aquatic invertebrates : EC50 (Daphnia magna (large waterflea)): 39 mg/l Exposure time: 48 h Test type: static test Method: OECD test guideline 202 GLP: yes trimethylolpropane tricrylate: Toxicity to fish: LC50 (Leuciscus idus (Goudwinde)): > 1.47 mg/l Exposure time: 96 h Test type: static test Method: Directive 67/548/EEC, Annex V, C.1. Toxicity to daphnias and other aquatic invertebrates : LC50 (Daphnia magna (large waterflea)): 19.9 mg/l Exposure time: 48 h Test type: static test Method: Directive 67/548/EEC, Annex V, C.2. Toxicity to algae: ErC50 (Scenedesmus subspicatus): 4.86 mg/l Exposure time: 96 h Test type: static test Method: Directive 67/548/EEC, Annex V, C.3. M-factor ((Acute) Short-term aquatic hazard): 1 M-factor ((Chronic) Long-term aquatic hazard): 1 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane: Toxicity to daphnias and other aquatic invertebrates: EC50 (Daphnia (Aefly)): 1.7 mg/l Exposure time: 48 h Test type: static test Method: OECD test guideline 202 GLP: ves Toxicity to daphnias and other aquatic invertebrates (Chronic toxicity): NOEC: 0.3 mg/l

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Exposure time: 21 d Species: Daphnia magna (large water flea) Test type: semi-static test Method: OECD Test Guideline 211 GLP: yes Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.: Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbowtrout)): 7 mg/l Exposure time: 96 h Test type: static test Method: OECD Test Guideline 203 GLP: yes Toxicity to daphnias and other aquatic invertebrates : EC50 (Daphnia magna (large waterflea)): 7.2 mg/l Exposure time: 48 h Test type: static test Method: OECD test guideline 202 GLP: yes Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: Toxicity to fish: LC50 (Cyprinus carpio (Carp)): 55 mg/l Exposure time: 96 h Test type: semi-static test Method: Directive 67/548/EEC, Annex V, C.1. Toxicity to daphnias and other aquatic invertebrates (Chronic toxicity): NOEC: > 100 mg/l Exposure time: 21 d Species: Daphnia magna (large water flea) Test type: semi-static test Method: OECD Test Guideline 211 GLP: yes Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4piperidyl Sebacate: M-factor ((Acute) Short-term aquatic hazard): 1 M-factor ((Chronic) Long-term aquatic hazard): 1 12.2 Persistence and Degradability: Product: Biodegradability : Remarks: No data available Ingredients: 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane: **Biodegradability:** Result: Not readily biodegradable. Physicochemical removability: Notes: No data available Ingredients: 1,6-Hexamethylenediol diglycidyl ether: **Biodegradability:**

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Test type: aerobic Result: Intrinsically biodegradable. Method: OECD Test Guideline 301D GLP: yes trimethylolpropane tricrylate: Biodegradability : Result: Easily biodegradable . Method: OECDTest Guideline 301 B GLP: yes 2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane: **Biodegradability:** Result: Not readily biodegradable. Method: OECD Test Guideline 301F GLP: yes Silane, trimethoxy[3-(oxiranylmethoxy)propyl]: **Biodegradability:** Test type: aerobic Result: Not readily biodegradable. Method: Directive 67/548/EEC, Annex V, C.4.A. GLP: yes 12.3 Bioaccumulat ion: Product: **Bioaccumulation:** Remarks: No data available Ingredients: 1,6-Hexamethylenediol diglycidyl ether: Partition coefficient: n-octanol/water: log Pow: 0,822 (20 °C) pH:6 - 8 Method: OECD Test Guideline 107 GLP: yes 2,2-bis[4(2,3-epoxypropoxy)phenyl]propane: Partition coefficient: noctanol/water: log Pow: 3,242 (25 °C) pH: 7.1 Method: OECD Test Guideline 117 GLP: yes Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.: Partition coefficient: n-octanol/water: log Pow: 6.6 pH: 6.74 Method: OECD Test Guideline 117 GLP: yes <u>12.4</u> Mobility in soil : Ingredients: <u>1,6-Hexamethylenediol diglycidyl</u> ether: Distribution in and between environmental compartments: log Koc: 2,98 Method: OECD Test Guideline 121 trimethylolpropane tricrylate:

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Distribution in and between environmental compartments: log Koc: 2.2 Method: OECD Test Guideline 121 <u>12.5</u> <u>Results of PBT and zZB assessment:</u> Product: Rating:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB) on levels of 0.1% or higher.

<u>12.6</u> Other Harmful Effects:

Product:

Additional ecological information:

Remarks: If this substance is not used improperly or disposed of, there is a risk of damage to the environment.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Product:

According to local and national regulations. Container dangerous in empty condition. Do not dispose of along with household waste. Do not mixing streams during the collection of waste. **Contaminated packaging:** Empty containers must be disposed of to an approved waste treatment plant for reuse or disposal.

SECTION 14: Information relating to transport

<u>14.1UNnumber</u>	
ADR/RID/ADN:	UN 3082
IMDG:	UN 3082
IATA:	UN 3082
14.2Correct cargo name in accordance	with the UN ADR/RID/ADNModel_
Regulations:	ENVIRONMENTALLY HAZARDOUS
LIQUID, N.E.C.	
	(2,2-bis[4(2,3-epoxypropoxy)phenyl]-propane)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (BISPHENOL A DIGLYCIDYL ETHER)
IATA:	Environmentally hazardous substance, liquid,
	n.o.s. (bis[4-(2,3-epoxypropoxy)phenyl]propane)
14.3Transport hazardclass(n)	
ADR/RID/ADN:	9
IMDG:	9
IATA:	9
14.4Packaging group	
ADR/RID/ADN	
Packing group:	III
Classification Code:	M6
Hazard IdentificationNo.:	90
Labels:	9
Remarks:	ADR: These substances when carried in single or combination
	packagings containing a net quantity per single or inner packaging of 5 l

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or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Imdg	
Packing group:	III
Labels:	9
EmS Code:	F-A, S-F
Remarks:	IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In thecase of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.
ΙΑΤΑ	,,
Packaging requirement (cargoaircraft):	964
Packaging requirement (passengeraircraft): 964
Packing group	III
Labels:	9
Remarks:	IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less far liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
14.5Environmental hazards ADR/RID/AND	
Environmentally hazardous	yes
yes	
Imdg	
Marine pollution:	yes
ΙΑΤΑ	
Environmentally hazardous:	yes
14.6Special precautions for the user Remarks:	
The transport of dangerous goods, in	ncluding loading and unloading, must be carried out in accordance with
regulations by personnel who have re	preived the necessary training

regulations by personnel who have received the necessary training.

14.7Carriage in bulk in accordance with Annex II to MARPOL 73/78 and the

<u>IBC code</u> Not applicable to product as supplied.

SECTION 15: Regulatory information

<u>15.1</u> <u>Specific</u> <u>safety, health and environmental regulations and legislation for the substance or</u> <u>mixture:</u> **REACH** - **Restrictions** On manufacture, placing on the market and the use of certain dangerous substances, preparations and articles (Annex XVII):

Low boiling point hydrogenated naphtha Low boiling

point hydrogenated naphtha

REACH - Candidate list of substances of very high concern for authorisation (Article 59).:

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This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57). **REACH - List of substances subject to authorisation (Annex XIV):**

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t
Volatile organic compounds:			

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on

industrial emissions (integrated pollution prevention and control)

Volatile organic compounds (VOC)content: 1,6 %, 17,92

g/l Remarks: VOCcontent without water

Other regulations:

As for the composition of the product, we deliberately do not add any of the substances indicated in the European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

The product therefore complies with the said Directives.

Also, no conflict minerals are deliberately added to the product. 15.2

Chemical safety assessment:

Not applicable.

SECTION 16: Other information Full

text of the H Declarations

H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H318:	Causes serious eye damage.
H319:	Causes severe eye irritation.
H400:	Very toxic to aquatic organisms.
H410:	Very toxic to aquatic organisms, with long-lasting effects. H411:
	Toxic to aquatic organisms, with long-lasting effects.
H412:	Harmful to aquatic organisms, with long-lasting effects.

Full text of other abbreviations

Aquatic Acute:	(Acute)	Short-term aquatic haz	zard
Aquatic Chronic:	(Chronic) L	ong-term aquatic haza	rd Eye
Dam.:Serious	eye injury		
Eye Irrit.:	Eye irritatio	on	
SkinIrritation.:Skin co	orrosion	/-irritation	
Skin Sens.:	Skin sensiti	zation	

Further information

Training advice: Provide good information, instruction and training for the users.

As far as we know, the information on this safety data sheet is correct on the date of issue indicated. This information is intended solely as a safe handling, use, processingguide, storage, transport, disposal, and release, and should not be considered as a guarantee or indication of quality. The information relates only to the product mentioned herein and is not necessarily valid when it is used together with other products or in any other process. unless this is stated in the text.