

Safety Data Sheet

according to Regulation (EC) No 1907/2006, Article 31

Revised on: 17.07.2025

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

· 1.1 Product identifier

· Trade Name: **Hardener 313**

UFI: DD10-80UX-V005-EEDD

· 1.2 Relevant identified uses of the substance or mixture and uses of which

No other relevant information is available.

· Use of the substance / mixture: epoxy resin hardener

· 1.3 Details of the supplier providing the safety data sheet

· Supplier:

DD Composite GmbH

Zu den Bürgerhufen 6

04924 Bad Liebenwerda (OT Lausitz)

Tel. 035341/47098, Fax: 035341/47099, Email: info@phd-24.de

· Information area:

see Chapter 16

Qualified Person see Chapter 16

· 1.4 Emergency number: Poison Emergency Call Mainz - 24 Hour Emergency Service - Tel.: +49 (0) 6131/19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

-Classification according to Regulation (EC) No. 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1C H314 Causes severe skin burns and severe eye damage.

Eye Dam. 1 H318 Causes severe eye damage.

Skin Sens. 1 H317 May cause allergic skin reactions.

· 2.2 Identification elements

· Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled in accordance with the CLP Regulation.

· Hazard pictograms



GHS05



GHS07

-Signal word: Danger

· Hazard-determining components for labelling:

Benzyl alcohol

3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer

2,2,4-Trimethylhexane-1,6-diamine

Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine

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· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and severe eye damage.

H317 May cause allergic skin reactions.

· Safety instructions

P260 Do not inhale dust and mist.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Disposal of contents/container according to local/regional/national/international regulations.

· 2.3 Other hazards

· PBT and vPvB assessment results

· PBT: Not applicable.

· vPvB: Not applicable

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** stabilized amine hardener for epoxy resins

· Dangerous components:

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-xxxx	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	20-35%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32-xxxx	3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	20-35%
CAS: 68609-08-5 EC Number: 614-657-1 Reg.nr.: REACH Annex V No. 4	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer Skin Corr. 1B, H314; Eye Dam. 1, H318	10-20%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12-xxxx	Polyoxypropylenediamine Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	2,5-10%
CAS: 25513-64-8 EINECS: 247-063-2 Reg.nr.: 01-2119560598-25-xxxx	2,2,4-Trimethylhexane-1,6-diamine Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317	2,5-10%
CAS: 111850-23-8 Reg.nr.: REACH Annex V No. 4	Phenol, 4,4'- (1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	2,5-10%

· Additional Notes:

The wording of the hazard warnings quoted can be found in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

-General instructions: Remove garments contaminated with product immediately.

-after inhalation:

Take the affected person out into the fresh air and store it quietly.

In case of complaints, seek medical treatment.

-after skin contact:

Wash off immediately with soap and water and rinse well.

In case of persistent skin irritation, consult a doctor.

-after eye contact:

Rinse eyes under running water for several minutes with the eyelid slit open and consult a doctor.

-after ingestion:

Drink plenty of water and fresh air. Consult a doctor immediately.

4.2 Main acute and delayed symptoms and effects

No other relevant information available.

-Notes for the doctor:

There are no known special measures to undertake symptomatic treatment.

4.3 Indications of immediate medical assistance or special treatment

No other relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing agents

-Suitable extinguishing agents:

CO₂, extinguishing powder or water spray jet. Larger fire with water spray jet or alcohol-resistant Fight foam.

-Unsuitable extinguishing agents for safety reasons: water in a full stream.

-5.2 Special hazards posed by the substance or mixture

When heated or in the event of a fire, toxic gases may form.

• 5.3 Instructions for firefighting

-Special protective equipment: Put on a breathing apparatus.

-Further information

Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations. be disposed of

SECTION 6: Accidental release measures

-6.1 Personal precautions, protective equipment and in emergencies

Procedures to be used

Wear personal protective clothing.

-6.2 Environmental protection measures:

Do not allow to enter the sewer system or water bodies.

Do not allow to get into the ground.

-Methods and material for retention and cleaning:

With liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust)

Dispose of contaminated material as Section 13 waste.

Provide adequate ventilation.

• 6.4 Reference to other sections Carefully clean the accident site.

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SECTION 7: Handling and storage

· 7.1 Protective measures for safe handling

The usual precautions when handling chemicals must be observed.

Keep container tightly closed.

Provide good ventilation/extraction in the workplace.

Avoid aerosol formation.

· **Notes on fire and explosion protection:** No special measures required.

· 7.2 Conditions for safe storage taking into account incompatibilities

· Storage:

· Requirements for storage rooms and containers:

Store only in the original container.

Provide a floor pan without a drain.

Store the container tightly closed, dry, frost-free.

· **Storage instructions:** Store separately from food.

· **Further information on storage conditions:** Keep container tightly closed.

· **Bearing class:** 8 A

· **Classification according to the Industrial Safety Ordinance (BetrSichV):** -

· 7.3 Specific End Applications No other relevant information available.

SECTION 8: Exposure controls/personal protection

-8.1 Control parameters

· **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

100-51-6 Benzyl Alcohol

Dermal	DNEL – worker	8 mg/kg/bw/d (long-term)
Inhalation	DNEL - worker	22 mg/m ³ (long-term)

2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin

Inhalation	DNEL - worker	0.073 mg/m ³
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9046-10-0 Polyoxypropylenediamine

Dermal	DNEL – worker	2.5 mg/kg/bw/d
Inhalation	DNEL - worker	1.36 mg/m ³

· PNECs

100-51-6 Benzyl Alcohol

PNEC (predicted no effect concentration)	1 mg/l (Frischwasser (freshwater)) 0,1 mg/l (Meerwasser (seawater))
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2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin

PNEC (predicted no effect concentration)	0,06 mg/l (Frischwasser (freshwater)) 0,006 mg/l (Meerwasser (seawater))
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9046-10-0 Polyoxypropylenediamine

PNEC (predicted no effect concentration)	0,015 mg/l (Frischwasser (freshwater)) 0,0142 mg/l (Meerwasser (seawater))
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25513-64-8 2,2,4-Trimethylhexane-1,6-diamine

PNEC (predicted no effect concentration)	0,102 mg/l (Frischwasser (freshwater)) 0,01 mg/l (Meerwasser (seawater))
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-Additional Notes:

The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

-General protective and hygiene measures:

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Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

-Recommended filter device for short-term use:



Combination filter A-P2

-Hand protection:



Plastic gloves.

Only chemicals - use protective gloves with a Category III CE marking.

To minimise wetness in the glove due to sweating, it is advisable to change the gloves during the of one shift.

Before each reuse of the glove, the tightness must be checked.

Preventive skin protection by using skin protection products is recommended.

-Glove Material:

Nitrile Rubber

Fluororubber (Viton)

Recommended material thickness: ≥ 0.5 mm

Further information on suitable protective gloves can be found under www.gisbau.de/service/epoxi/expotab.html

The selection of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials is not predictable and must therefore be checked before use.

-Penetration time of glove material:

The exact breakthrough time must be found out from the protective glove manufacturer and adhered to.

-Gloves made of the following materials are suitable as splash protection: PVC gloves.

-Gloves made of the following materials are not suitable:

Gloves made of thick fabric.

Leather gloves.

-Eye protection:



Tight-fitting safety goggles

-Body protection: protective work clothing.

-Risk management measures

For safe spraying applications, refer to the substance-related exposure scenarios for benzyl alcohol described below. Professional Use of Benzyl Alcohol in Mixtures (SU 19: Building and Construction Works): Covers a concentration of up to 50%

Spray concentration high: Control of worker exposure for spray application is only guaranteed when the spray is directed horizontally or downwards (PROC 11).

Duration: Includes exposure up to 70 min

Outdoor Use: Covers exposure up to 2 hours

Spray concentration low: Control of worker exposure when spraying in any direction, including upwards (PROC 11).

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Duration: Includes exposure up to 25 min
Outdoor Use: Includes up to 55 min of exposure

Spray concentration high: Control of worker exposure when spraying in any direction, including upwards (PROC 11).

Duration: Includes exposure up to 20 min
Outdoor Use: Includes up to 45 min exposure

Conditions affecting workers' exposure:
Covers indoor and outdoor use
Room size: 100 m³
Physical Product Form: Highly Volatile Liquid, Aerosol
Vapor Pressure: <7Pa (20°C)
Temperature: Adopts process temperature up to 20°C
Ventilation rate: Indoors, with good natural ventilation.

Technical and organizational requirements as well as personal protective equipment:
The product causes severe eye irritation. Therefore, exposure should be minimized through appropriate risk management measures. Only appropriately trained and authorized personnel are allowed to handle the substance.
Activity class: Spraying liquids
Spray technology: Spraying with no or low compressed air consumption
Application rate: Moderate application rate (0.3 - 3 L/minute)
Worker distance: <1 m

Wear chemical-resistant gloves (tested according to EN 374) in combination with basic employee training (dermal - minimum efficiency of 90%) and appropriate respiratory protection (inhalation - minimum efficiency of 90%). To avoid possible contact with the product (sampling, spilling, leaking, cleaning), wear protective clothing and eye protection.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General information

· Physical state

liquid

· Color

yellowish

· Smell:

Amine-like

· Odour threshold:

Not definitely.

· Melting point/freezing point:

Not determined

· boiling point or beginning of boiling and

Boiling range

> 200 °C

· Flammability

Not applicable.

· Lower and upper explosion limit

· Lower:

1.2 Vol %

Upper:

13.0 Vol %

· Flash Point:

> 100 °C

· Ignition temperature:

240 °C

· Decomposition Temperature:

Not definitely.

· pH value:

12,3

c = 100 g/L; Propan-2-ol/H₂O (1/1, v/v)

· Viscosity:

· Kinematic Viscosity

Not definitely.

· dynamic at 25 °C:

180 mPas (ISO 3219)

· Solubility

· Water:

immiscible or slightly miscible

· Distribution coefficient n-octanol/water (log-

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value)	Not definitely.
· Vapor pressure at 20 °C:	< 1 hPa
· Density and/or relative density	
· Density at 23 °C:	1.00 g/cm ³ (ISO 2811-2)
· Relative density	Not definitely.
· Vapor Density	Not definitely.
· 9.2 Other information	
· Appearance:	
· Shape:	liquid
· Important information on health and safety	
Environmental protection and safety	
· Ignition temperature	The product is not self-igniting.
· Explosive properties:	The product is not explosive.
· Change of state	
· Evaporation speed	Not definitely.
· Angaben über physikalische	
Hazard classes	
· Explosive substances/mixtures and articles	
with explosives	deleted
· Flammable gases	deleted
· Aerosols	deleted
· Oxidizing gases	deleted
· Gases under pressure	deleted
· Flammable liquids	deleted
· Flammable solids	deleted
· Self-reactive substances and mixtures	deleted
· Pyrophoric liquids	deleted
· Pyrophoric solids	deleted
· Self-heating substances and mixtures	deleted
· Substances and mixtures that come into contact with	
Water Flammable Gases	deleted
· Oxidizing liquids	deleted
· Oxidizing solids	deleted
· Organic Peroxide	deleted
· Substances that are corrosive to metals	
and mixtures	deleted
· Desensitised substances/mixtures and	
Products containing explosives	deleted

SECTION 10: Stability and reactivity

- 10.1 Reactivity No other relevant information available.
- 10.2 Chemical stability
- Thermal decomposition/conditions to be avoided:
 - No decomposition when used as intended.
- 10.3 Possibility of dangerous reactions: No known dangerous reactions.
- 10.4 Conditions to avoid No other relevant information available.
- 10.5 Incompatible Materials: Strong Oxidizing Agents
- 10.6 Dangerous decomposition products:
 - In the event of a fire:
 - Toxic gases/vapours
 - Corrosive gases/vapours

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SECTION 11: Toxicological information

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

Acute toxicity: Harmful if swallowed.

• **LD/LC50 values that are relevant for classification:**

100-51-6 Benzyl Alcohol

Oral	LD 50	1,200 mg/kg (MoU) 1,620 mg/kg (rat)
Dermal	LD 50	>2.000mg/kg (rbt)

2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin

Oral	LD50	1,030 mg/kg (rat)
Dermal	LD50	1,840 mg/kg (RAB) >2000 mg/kg (rat)

9046-10-0 Polyoxypropylenediamine

Oral	LD50	2,885 mg/kg (rat)
Dermal	LD50	2,980 mg/kg (RAB)

25513-64-8 2,2,4-Trimethylhexane-1,6-diamine

Oral	LD50	910 mg/kg (rat)
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Primary irritant effect:

• **Corrosive/irritating effect on the skin**

In vitro membrane barrier test for skin corrosion has been classified in subcategory 1C (Dangerous Goods Packaging Group III)

Causes severe skin burns and severe eye damage.

• **Severe eye damage/irritation**

Causes serious eye damage.

• **Sensitization of the respiratory tract/skin**

May cause allergic skin reactions.

• **CMR effects (carcinogenic, mutagenic and toxic to reproduction)**

• **Germ cell mutagenicity**

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

• **Carcinogenicity**

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

• **Reproductive toxicity**

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

• **Specific target organ toxicity with single exposure**

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

• **Specific target organ toxicity with repeated exposure**

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

• **Risk of aspiration**

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

100-51-6 Benzyl Alcohol

Bacteria toxicity	>658 mg/l (<i>Pseudomonas putida</i>) (EC50(16h))
Daphnine toxicity	390 mg/l (<i>Pseudomonas putida</i>) (EC50(24h))
Algae toxicity	230 mg/l (<i>Daphnia magna</i> (water flea)) (EC50(24h))
Fish Toxicity	770 mg/l (<i>Pseudokirchnerilla subcapitata</i>) (IC50(72h))
	460 mg/l (<i>Pimephales promelas</i>) LC50(96h)
	645 mg/l (Goldorfe) LC50(96h)
2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin	
Bacteria toxicity	1.120 mg/l (<i>Pseudomonas putida</i>) (EC10(18h))
	Bringmann and Kühn, Z. Water Wastewater Forsch. 10, 87-98 (1977)
Daphnia toxicity	23 mg/l (<i>Daphnia magna</i> (water flea)) (EC50(48h))
	OECD TG 202
Algae toxicity	>50 mg/l (<i>Scenedesmus subspicatus</i>) (ErC50(72h))
	EC 88/302
Fish toxicity	110 mg/l (<i>Leuciscus idus</i>) (LC50(96h))
	EG 84/449
9046-10-0 Polyoxypropylenediamine	
Bacterial toxicity (static)	380 mg/l (Belebtschlamm (activated sludge)) (EC20(3h))
Daphnia toxicity	80 mg/l (<i>Daphnia magna</i> (water flea)) (EC50(48h))
Algae toxicity	15 mg/l (<i>Pseudokirchnerilla subcapitata</i>) (EC50(72h))
Fish toxicity	> 15 mg/l (<i>Ochorhynchus mykiss</i> (Rainbow Trout)) (LC50(96h))
25513-64-8 2,2,4-Trimethylhexane-1,6-diamine	
Bacterial toxicity (static toxicity)	89 mg/l (<i>Pseudomonas putida</i>) EC50(17h)
Daphnia toxicity	31.5 mg/l (<i>Daphnia magna</i> (water flea)) EC50(24h)
Algae toxicity	43.5 mg/l (<i>Scenedesmus subspicatus</i>) ErC50 (72h)
Fish toxicity	174 mg/l (<i>Leuciscus idus</i>) LC50(48h)
· 12.2 Persistence and degradability No other relevant information available. · 12.3 Bioaccumulation potential No other relevant information available. · 12.4 Mobility in the ground No other relevant information available. · 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. · 12.6 Endocrine disrupting properties The product does not contain any substances with endocrine-disrupting properties. · 12.7 Other Adverse Effects · Ecotoxic effects: not determined · Further ecological information: · General information: Do not allow to enter groundwater, water bodies or sewers. Must not enter the wastewater or receiving water body undiluted or unneutralized. Drinking water hazard even if small quantities leak into the underground. Washing away larger quantities in sewers or bodies of water can lead to an increase in pH value. A high pH value harms aquatic organisms. In the dilution of the application concentration the pH value is significantly reduced, so that after the use of the product	

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SECTION 13: Disposal considerations

· 13.1 Waste treatment processes

-Recommendation:

The local official regulations must be observed for disposal. Liquid component of a suitable combustion.

Product can be disposed of together with household waste after curing.

-European Waste Catalogue

08 00 00	WASTE FROM PRODUCTION, PREPARATION, DISTRIBUTION AND APPLICATION (HZVA) OF COATINGS (PAINTS, VARNISHES, ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 02 00	Waste from HZVA of other coatings (including ceramic materials)
08 02 99	Waste n.e.s.

Uncleaned packaging:

-Recommendation: Disposal in accordance with official regulations.

SECTION 14: Transport information

· 14.1 UN Number

· ADR /RID/ADN, IMDG, IATA

UN2735

· 14.2 Proper UN shipping designation

· ADR/RID/ADN

2735 AMINES, LIQUID, CORROSIVE, N.E.S.
(Isophorondiamin, Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine)

· IMDG, IATA

AMINES, LIQUID, CORROSIVE, N.O.S.
(Isophorondiamin, Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine)

· 14.3 Transport hazard classes

· ADR/RID/ADN



Class:

8(C7) Corrosive substances

Hazard labels:

8

· IMDG, IATA



· Class

8 Corrosive substances

· Label

8

· 14.4 Packaging Group

· ADR /RID/ADN, IMDG, IATA

III

· 14.5 Environmental hazards:

· Marine pollutant:

No

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· 14.6 Special precautions for the User · Kemler number: · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Attention: Corrosive substances 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
· 14.7 Bulk cargo transport in accordance with Annex II to MARPOL 73/78 and in accordance with IBC code	Not applicable
· Transport/further information: · ADR/RID/ADN · Exempt quantities (EQ): · Limited quantity (LQ) · Exempt quantities (EQ): · Promotion category · Tunnel Restriction Code	E1 5L Code: E1 Maximum net quantity per inner package: 30 ml Maximum net quantity per outer package: 1000 ml 3 E
· IMDG · Limited quantities (LQ)	5 L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.E.S. (ISOPHORONDIAMIN, PHENOL, 4,4'- (1-METHYLETHYLIDENE)BIS-, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE, REACTION PRODUCTS WITH 2,2,4(OR 2,4,4)-

SECTION 15: Regulatory information

· 15.1 Regulations on safety, health and environmental protection/specific

Legislation relating to the substance or mixture

· Directive 2012/18/EU

· **Hazardous substances listed by name - ANNEX I** None of the ingredients are included.

· REGULATION (EC) No 1907/2006 ANNEX XVII Restriction conditions: 3

· Directive 2011/65/EU on the restriction of the use of certain hazardous substances in Electrical and Electronic Equipment – Annex II

None of the ingredients are included.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (UPPER concentration limit for a permit under Article 5(3))

None of the ingredients are included.

ANNEX II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are included.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of the Trade in drug substitutes between the Community and third countries

None of the ingredients are included.

· **National regulations:**

VOC	- EU (Decopaint Directive (2004/42/EC))
342,0	g/L

· **Water hazard class:** WGK 2 (self-classification): clearly hazardous to water.

Other Regulations, Restrictions and Prohibition Ordinances

· **BG leaflet:**

Practical guide for handling epoxy resins
(published by the Berufsgenossenschaft der Bauwirtschaft)
www.bgbau.de or www.gisbau.de

Safe handling of epoxy resin systems
(published by PlasticsEurope)
www.plasticseurope.org

BGR 227 "Activities with epoxy resins"
(published by the Main Association of Commercial Employers' Liability Insurance Associations)
www.dguv.de

BGR 190 - Rules for the Use of Respiratory Protective Devices

BGR 192 - Rules for the use of eye and face protection

· **15.2 Chemical safety assessment:** A chemical safety assessment was not carried out.

SECTION 16: Other information

The data are based on the current state of our knowledge, but they do not constitute a of product characteristics and do not constitute a contractual legal relationship.

Changes compared to last issue of 05.02.2020

in the points : *

· **Relevant sentences**

H302 Harmful if swallowed.

H312 Harmful in contact with skin

H314 Causes severe skin burns and severe eye damage.

H317 May cause allergic skin reactions.

H318 Causes severe eye damage.

H319 Causes severe eye irritation.

H332 Harmful by inhalation.

H412 Harmful to aquatic life, with long-term effects.

· **Data sheet exhibiting area:**

DD Composite GmbH

Zu den Bürgerhufen 6

04924 Bad Liebenwerda OT Lausitz

· **Contact Person:**

Daniel Dietrich

· **Abbreviations and acronyms:**

RID: International Regulations concerning the Carriage of Dangerous Goods by Rail
(Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: European Agreement concerning the Carriage of Dangerous Goods by Road
(International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin irritating/corrosive effect – Category 1A
Skin Corr. 1B: Skin irritating/corrosive effect – Category 1B
Skin Corr. 1C: Skin irritating/corrosive effect – Category 1C
Eye Dam. 1: Severe eye damage/eye irritation – Category 1
Eye Irrit. 2: Severe Eye Damage/Eye Irritation – Category 2
Skin Sens. 1: Skin Sensitization – Category 1
Skin Sens. 1A: Skin Sensitization – Category 1A
Aquatic Chronic 3: Hazardous to water - long-term hazardous to water - Category 3
· *** Data changed compared to the previous version**