

SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

The Safety data sheet is prepared by a Danish Consultant Company that has made a toxicological evaluation of all components in the mixture.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier:**

BioCast Resin

UFI: SWG6-K0EX-700C-YWK9

1.2 Relevant identified uses of the substance or mixture and uses advised against:

2-Component epoxy product for hobby use (DIY).

1.3 Details of the supplier of the safety data sheet:

cchobby.com

Rasmus Færchs Vej 23

T: +45 96 13 30 10

7500 Holstebro

Denmark

Responsible person for the safety data sheet (e-mail): compliance@cchobby.dk

1.4 Emergency telephone number:

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

National Poisons Information Centre (Ireland): +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture:**

Irritating liquid, that causes serious eye damage and allergy. Hazardous to the aquatic environment.

CLP (1272/2008): Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Dam. 1;H318 Aquatic Chronic 2;H411

2.2. Label elements:**DANGER**

Contains:

Bis-[4-(2,3-epoxipropoxy)phenyl]propane, Butandioldiglycidyl ether

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P261: Avoid breathing vapours/spray

P280: Wear protective gloves/eye protection/face protection.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards: None known.

PBT/vPvB: The ingredients are not considered PBT/vPvB according to criteria in Regulation 2023/707.

Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2023/707.

SECTION 3: Composition/information on ingredients

3.2. Mixtures:

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.no.	Classification	
70-80	Bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3	216-823-5	603-073-00-2	01-2119456619-26	Skin Irrit. 2;H315 (SCL>5%) Eye Irrit. 2;H319 (SCL>5%) Skin Sens. 1;H317 Aquatic Chronic 2;H411	-
17 – 20	Butandiol-diglycidyl ether	2425-79-8	219-371-7	603-072-00-7	01-2119494060-45	Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 4, H332	1
<0,1	1-Methyl-1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	1065336-91-5	915-687-0	-	01-2119491304-40	Skin Sens. 1A;H317 Repr. 2;H361f Aquatic Acute 1;H400 (M=1) Aquatic Chronic 1;H410 (M=1)	-

1) ATE (Dermal) = 2000 mg/kg BW

ATE (oral) = 11400 mg/kg BW

Wording of hazard statements - see section 16.

SECTION 4: First-aid measures

4.1. Description of first aid measures:

Inhalation: Remove to fresh air. Keep at rest. In case of discomfort: Seek medical advice.

Skin contact: Remove contaminated clothing and wash skin with water and mild soap. If irritation persists: Seek medical advice.

Eye contact: Immediately flush with water or physiological salt water for at least 15 minutes, holding eye lids open, remember to remove contact lenses, if any. Get medical attention; continue to flush on the way.

Ingestion: Rinse mouth and drink plenty of water. **Do not induce vomiting.** If vomiting occurs, keep the head down to prevent gastric content from entering the lungs. Call an ambulance immediately.

4.2. Most important symptoms and effects, both acute and delayed:

Corrosion of eyes with pain, redness and permanent damage of cornea. Causes skin irritation. May cause an allergic reaction.

4.3. Indication of any immediate medical attention and special treatment needed:

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Use water spray (never water jet), dry chemical, foam or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:

Do not inhale smoke fumes. At fire, the product may form hazardous decomposition products such as oxides of carbon.

5.3. Advice for fire fighters:

Use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment - see section 8. Provide efficient ventilation.

6.2. Environmental precautions:

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Collect and dispose of as chemical waste. Place in a suitable container for disposal. Flush area of spill with plenty of water. Further handling of spillage - see section 13.

6.4. Reference to other sections:

See above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid inhalation of vapours. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Change contaminated clothes immediately. Wash with water and soap after work. Required access to water and eye wash fountain.

7.2. Conditions for safe storage, including any incompatibilities:

Store in the tightly closed original container at ambient temperature. Avoid direct sunlight.

Store securely, inaccessible to unauthorized persons, separate from food, foodstuff, medicaments etc.

7.3. Specific end use(s):

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Occupational exposure limits (EH40/2005) (2020): None.

DNEL:	Exposure	Value	Population	Effects
Bis-[4-(2,3-epoxipropoxy)phenyl]propane	Long-term, inhalation	12.3 mg/m ³	Workers	Systemic
	Short-term, inhalation	12.3mg/m ³	Workers	Systemic
	Long-term, dermal	8.3 mg/kg	Workers	Systemic
	Short-term, dermal	8.3 mg/kg	Workers	Systemic
	Long-term, oral	0.75 mg/kg	Consumers	Systemic
	Short-term, oral	0.75 mg/kg	Consumers	Systemic
	Long-term, inhalation	0.75 mg/m ³	Consumers	Systemic
	Short-term, inhalation	0.75 mg/m ³	Consumers	Systemic
	Long-term, dermal	3.6 mg/kg	Consumers	Systemic
	Short-term, dermal	3.6 mg/kg	Consumers	Systemic

PNEC:	Medium	Value
Bis-[4-(2,3-epoxipropoxy)phenyl]propane	Fresh water	0.006 mg/l
	Sea water	0.0001 mg/l
	Intermittent release	0.013 mg/l
	Fresh water sediment	0.341 mg/kg
	Sea water sediment	0.034 mg/kg
	Sewage treatment plant	10 mg/l
	Soil	0.065 mg/kg

8.2. Exposure controls:

Appropriate engineering controls: None special.

Personal protective equipment:

Respiratory protection: Normally not necessary. In case of inadequate ventilation: Use an approved mask with gas filter class A2 (Brown - for organic vapours) (EN 140).

Skin protection: Wear protective gloves e.g. Barrier or Silver shield (EN 374). It has not been possible to find data for breakthrough time. In case of spill on the glove, it is recommended to change it.

Eye protection: Wear tight fitting safety goggles (EN ISO 16321-1) when risk of eye contact.

Environmental exposure controls: None particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Transparent
Odour:	Characteristic
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (°C):	Not determined
Flammability (solid, gas):	Not determined
Lower and upper explosion limit (vol-%):	Not determined
Flash point (°C):	Not determined
Auto-ignition temperature (°C):	> 100
Decomposition temperature (°C):	Not determined
pH:	Not determined
Kinematic viscosity:	1880 ± 380 mPa.s @ 25 °C

SECTION 9: Physical and chemical properties (cont.)

Solubility:	Insoluble in water
Partition coefficient n-octanol/water (log value):	Not relevant (see section 12)
Vapour pressure:	Not determined
Density and/or relative density(g/cm ³ , 20°C):	1.13 – 1.17
Relative vapour density:	Not determined
Particle characteristics:	Not determined
9.2. Other information:	
None relevant	

SECTION 10: Stability and reactivity

10.1. Reactivity:

No available data.

10.2. Chemical stability:

Stable under the recommended storage conditions - see section 7.

10.3. Possibility of hazardous reactions:

None known.

10.4. Conditions to avoid:

Excessive heating.

10.5. Incompatible materials:

Oxidising agents. Reacts with amines under release of heat (exothermic reaction)

10.6. Hazardous decomposition products:

When heated to high temperatures (decomposition) toxic gasses are formed: Oxides of carbon.

SECTION 11: Toxicological information

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

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Skin irritation: Skin Irrit. 2;H315
Serious eye damage/irritation:	Eye damage: Eye Dam. 1;H318
Respiratory or skin sensitization:	Skin sensitization: Skin Sens. 1;H317
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

Hazard class	Data	Test	Data source
Acute toxicity:	CAS 1675-54-3		
Inhalation	No data	-	-
Dermal	LD ₅₀ (rat) = 2000 mg/kg	No information	Supplier
Oral	LD ₅₀ (rat) = 11400 mg/kg	No information	Supplier
	CAS 2425-79-8		
Inhalation	LC ₅₀ (rat, 4t) = 10 mg/l	No information	Supplier
Dermal	LD ₅₀ (rabbit) = 1130 mg/kg	No information	Supplier
Oral	LD ₅₀ (rat) = 1134 mg/kg	No information	Supplier
Corrosion/irritation:	CAS 1675-54-3	OECD 404	Supplier
	Skin irritation, rabbit		
Sensitization:	CAS 1675-54-3	OECD 406	Supplier
	Skin sensitization (Challenge test = 100%)		
CMR:	-	-	-

SECTION 11: Toxicological information (cont.)

Information on likely routes of exposure: Inhalation, skin and ingestion.

Symptoms:

Inhalation: May irritate the upper respiratory tract and cause discomfort.

Skin: Causes irritation with redness and pain.

Eyes: Causes corrosion with pain, blurred vision and possible permanent eye damage.

Ingestion: May cause irritation to the mucous membranes in mouth and throat with nausea, vomiting and discomfort.

Chronic effects: May cause an allergic reaction.

11.2. Information on other hazards:

None known.

SECTION 12: Ecological information

12.1. Toxicity:

Aquatic	Data (CAS 1675-54-3)	Test (Media)	Data source
Fish	LC ₅₀ (Fish, 96h) = 1.3 mg/l	OECD 203	Supplier
Daphnia	LC ₅₀ (Daphnia, 48h) = 2.1 mg/l	OECD 202	Supplier
Algae	ECr ₅₀ (Scenedesmus capricornutum, 72h) > 11 mg/l	No info	Supplier
	CAS 2425-79-8		
Fish	LC ₅₀ (Oryzias latipes, 96h) = 13 mg/l	No info	Supplier
Daphnia	LC ₅₀ (Daphnia magna, 48h) = 233 mg/l	No info	Supplier
Algae	ECr ₅₀ (Alger, 72h) > 93 mg/l	No info	Supplier

12.2. Persistence and degradability:

CAS 1675-54-3 and CAS 2425-79-8 are not expected to be readily biodegradable.

12.3. Bioaccumulative potential:

CAS 1675-54-3: BCF (calc.) = 31 - No significant bioaccumulation

CAS 2425-79-8: BCF (calc.) = 3 - No significant bioaccumulation

12.4. Mobility in soil:

No available data.

12.5. Results of PBT and vPvB assessment:

No ingredients are PBT/vPvB, according to criteria in Regulation 2023/707.

12.6. Endocrine disrupting properties:

None known.

12.7. Other adverse effects:

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

Disposal should be according to local, state or national legislation.

EWC-code: 08 04 09 (product itself)
08 04 11 (hardened mixture)
15 02 02 (paper towel, inert material etc. contaminated with the product)

SECTION 14: Transport information

14.1. UN number or ID number: 3082.

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bis-[4-(2,3-epoxipropoxy)phenyl]propane)

14.3. Transport hazard class(es): 9.

14.4. Packing group: III.

14.5. Environmental hazards: Yes - MP (Marine Pollutant).

14.6. Special precautions for user: None.

14.7. Maritime transport in bulk according to IMO instruments: Not relevant.

SECTION 15: Regulatory information

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

Must not be used by persons under 18 years of age (94/33/EC).

15.2. Chemical safety assessment:

No CSR.

SECTION 16: Other information

Hazard statements mentioned in section 2 and 3:

H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H361f: Suspected of damaging fertility.
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.

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC₅₀ = Effect Concentration 50%

FW = Fresh Water

LC₅₀ = Lethal Concentration 50%

LD₅₀ = Lethal Dose 50%

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

ECHA = European Chemicals Agency

Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:

2.2

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