according to Regulation (EC) No 1907/2006

BioCast Resin

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

1.1. Product identifier

BioCast Resin

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

Use of the substance/mixture

Adhesives, sealants

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Etter Art GmbH
Street: Gmünder Str .65
Place: D-73614 Schorndorf
Telephone: +49 (0) 159 - 06639395
Responsible Department: shop@etter-art.com

1.4. Emergency telephone +49 (0) 159 - 06639395 (Mo-Fr, 08:00 - 15:00)

number:

Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

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

1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether

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

Signal word: Danger

Pictograms:







Hazard statements

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.

Precautionary statements

P102 Keep out of reach of children.

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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P302+P352 IF ON SKIN: Wash with plenty of Water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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

2.3. Other hazards

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
25068-38-6	epoxy resin (number average mole (epichlorhydrin)	cular weight <= 700), reaction produc	ct: bisphenol-A-	75 - < 80 %
	500-033-5	603-074-00-8	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1, Aquatic Chronic 2; H315 H319 H3	17 H411	
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, b	outanedioldiglycidyl ether		15 - < 20 %
	219-371-7	603-072-00-7	01-2119494060-45	
	Acute Tox. 4, Acute Tox. 4, Acute 7 3; H332 H312 H302 H315 H318 H3	Fox. 4, Skin Irrit. 2, Eye Dam. 1, Skin 317 H412	Sens. 1, Aquatic Chronic	
	Reaction mass of Bis(1,2,2,6,6-pen 1,2,2,6,6-pentamethyl-4-piperidyl se	tamethyl-4-piperidyl) sebacate and Nebacate	Nethyl	0.5 - < 1 %
	915-687-0		01-2119491304-40	
	Repr. 2, Skin Sens. 1A, Aquatic Ac	ute 1, Aquatic Chronic 1; H361f H317	7 H400 H410	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
25068-38-6	500-033-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	75 - < 80 %
	dermal: LD50 = Irrit. 2; H319: >=	= >2000 mg/kg; oral: LD50 = >2000 mg/kg	
2425-79-8	219-371-7	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	15 - < 20 %
	I	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = 1163 mg/kg	
	915-687-0	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.5 - < 1 %
	oral: LD50 = 32	230 mg/kg	

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

according to Regulation (EC) No 1907/2006

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General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Safe handling: see section 7

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

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For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Handling and storage: Refer to section 7 Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

Substance			
	Exposure route	Effect	Value
epoxy resin (number average molecular weight <= 700), rea	action product: bisphen	ol-A-(epichlorhydrin)	
Worker DNEL, acute		systemic	8,33 mg/kg bw/day
long-term	dermal	systemic	8,33 mg/kg bw/day
acute	inhalation	systemic	12,25 mg/m³
long-term	inhalation	systemic	12,25 mg/m³
EL, long-term	dermal	systemic	3,571 mg/kg bw/day
EL, acute	dermal	systemic	3,571 mg/kg bw/day
	epoxy resin (number average molecular weight <= 700), reacute long-term acute long-term EL, long-term	Exposure route epoxy resin (number average molecular weight <= 700), reaction product: bisphen acute dermal long-term dermal acute inhalation long-term inhalation EL, long-term dermal	Exposure route Effect epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin) acute dermal systemic long-term dermal systemic acute inhalation systemic long-term inhalation systemic EL, long-term dermal systemic systemic

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Consumer DNEL, acute		oral	systemic	0,75 mg/kg bw/day
Consumer DN	Consumer DNEL, long-term		systemic	0,75 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	0,75 mg/m³
Consumer DN	EL, acute	inhalation	systemic	0,75 mg/m³
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycid	yl ether		
Worker DNEL	, long-term	inhalation	systemic	1,63 mg/m³
Worker DNEL	, long-term	dermal	systemic	9,26 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	0,48 mg/m³
Consumer DN	EL, long-term	dermal	systemic	5,56 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,56 mg/kg bw/day
	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperic sebacate	dyl) sebacate and Methy	yl 1,2,2,6,6-pentamethy	rl-4-piperidyl
Consumer DN	EL, long-term	dermal	systemic	1,25 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	1,25 mg/kg bw/day
Worker DNEL	, acute	inhalation	systemic	2,35 mg/m³
Worker DNEL	, long-term	inhalation	systemic	2,35 mg/m³
Worker DNEL	, long-term	dermal	systemic	2,5 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	2,5 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	0,58 mg/m³
Consumer DN	EL, acute	oral	systemic	1,25 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	1,25 mg/kg bw/day
Consumer DN	EL, acute	inhalation	systemic	0,58 mg/m³

PNEC values

CAS No	Substance							
Environmental	compartment	Value						
25068-38-6 epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)								
Freshwater	0,006 mg/l							
Freshwater (intermittent releases)								
Marine water								
Freshwater sediment								
Marine sedime	0,0996 mg/kg							
Secondary poisoning								
Micro-organisr	ns in sewage treatment plants (STP)	10 mg/l						
Soil		0,196 mg/kg						
2425-79-8 1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether								
Freshwater								
Freshwater (intermittent releases) 0,24 mg/l								
Marine water 0,0024 mg/								

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Freshwater sediment						
Marine sedin	Marine sediment					
Micro-organisms in sewage treatment plants (STP)						
Soil						
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-sebacate						
Freshwater	0,0022 mg/l					
Freshwater (0,009 mg/l					
Marine water		0,00022 mg/l				
Freshwater s	1,05 mg/kg					
Marine sediment						
Micro-organisms in sewage treatment plants (STP)						
Soil						

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls







Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: $0.5\ \text{mm}$

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

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Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- -Exceeding exposure limit values
- -Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: characteristic
Odour threshold: not determined

Melting point/freezing point:

Boiling point or initial boiling point and

not determined
not determined

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined >100 °C Flash point: Auto-ignition temperature: not determined Decomposition temperature: not relevant pH-Value: not determined 1500-2260 mm²/s Viscosity / kinematic:

(at 25 °C)

Water solubility: insoluble

Solubility in other solvents

not determined

Dissolution rate: not relevant Partition coefficient n-octanol/water: not relevant Dispersion stability: not relevant Vapour pressure: not determined Density (at 20 °C): 1,13-1,17 g/cm³ Bulk density: not relevant Relative vapour density: not determined Particle characteristics: not relevant

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

none

Sustaining combustion: Not sustaining combustion

Self-ignition temperature

Solid: not relevant
Gas: not determined

Oxidizing properties

none

Other safety characteristics

according to Regulation (EC) No 1907/2006

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Evaporation rate: not determined Solvent separation test: not determined Solvent content: not determined Solid content: not determined Sublimation point: not relevant Softening point: not relevant Pour point: not relevant not determined Viscosity / dynamic: Flow time: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

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

ATEmix calculated

ATE (oral) 5818 mg/kg; ATE (dermal) 5503 mg/kg; ATE (inhalation vapour) 55,03 mg/l; ATE (inhalation dust/mist) 7,504 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
25068-38-6	6 epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlo				t: bisphenol-A-(epichlorhydri	n)	
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier		
	dermal	LD50 mg/kg	>2000	Rabbit.	ECHA Dossier		
2425-79-8	1,4-bis(2,3 epoxypropo	xy)butane, b	utanedioldigly	cidyl ether			
	oral	LD50 mg/kg	1163	Rat	ECHA Dossier		
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier		
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				

according to Regulation (EC) No 1907/2006

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	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate						
	oral	LD50 mg/kg	3230	Rat	ECHA Dossier		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin); 1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether; Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

The product has not been tested.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
25068-38-6	068-38-6 epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)							
	Acute fish toxicity	LC50	1,2 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier		
	Acute algae toxicity	ErC50	9,4 mg/l	72 h	Scenedesmus capricornutum	ECHA Dossier		
	Acute crustacea toxicity	EC50	1,7 mg/l	48 h	Daphnia magna	ECHA Dossier		
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	ECHA Dossier		
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, but	anedioldigly	idyl ethe	er			
	Acute fish toxicity	LC50	(24) mg/l	96 h	Danio rerio	ECHA Dossier		
	Acute algae toxicity	ErC50 mg/l	EL: 110	72 h	Pseudokirchnerella subcapitata	ECHA Dossier		
	Acute crustacea toxicity	EC50	(76) mg/l	48 h	Daphnia magna (24h)	ECHA Dossier		
	Acute bacteria toxicity	EC50 mg/l ()	>100	3 h	Activated sludge	ECHA Dossier		
	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate							

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Acute fish toxicity	LC50	0,9 mg/l		Brachydanio rerio (zebra-fish)	ECHA Dossier	
Acute algae toxicity	FrC50	1 68	72 h	Desmodesmus	FCHA Dossier	

subspicatus

ECHA Dossier

21 d Daphnia magna

12.2. Persistence and degradability

The product has not been tested

Crustacea toxicity

mg/l

NOEC

1 mg/l

CAS No	Chemical name								
	Method	Value	d	Source					
	Evaluation			-					
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)								
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	5%	28	ECHA Dossier					
Not easily bio-degradable (according to OECD-criteria).									
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether								
	OECD 301E/ EEC 92/69/V, C.4-B	38%	28	ECHA Dossier					
	Not readily biodegradable (according to OECD criteria)								
	entametl	nyl-4-piperidyl							
	OECD 301E / EEC 92/69 annex V, C.4-B	38%	28						
	Product is partially biodegradable.								

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	3,26
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	-0,269

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

according to Regulation (EC) No 1907/2006

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According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

200127 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND

INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins containing hazardous

substances; hazardous waste

List of Wastes Code - used product

200127 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND

INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins containing hazardous

substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(epoxy resin (number average molecular weight <= 700), reaction product:

bisphenol-A-(epichlorhydrin))

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label:



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Classification code: M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 90
Tunnel restriction code: -

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(epoxy resin (number average molecular weight <= 700), reaction product:

bisphenol-A-(epichlorhydrin))

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label:



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Classification code: M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(epoxy resin (number average molecular weight <= 700), reaction product:

bisphenol-A-(epichlorhydrin))

14.3. Transport hazard class(es):

14.4. Packing group:
Hazard label: 9



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Marine pollutant: YES

Special Provisions: 274 335 969

Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(epoxy resin (number average molecular weight <= 700), reaction product:

bisphenol-A-(epichlorhydrin))

14.3. Transport hazard class(es):

14.4. Packing group:IIIHazard label:9



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Special Provisions: A97 A158 A197 A215

Limited quantity Passenger: 30 kg G
Passenger LQ: Y964
Excepted quantity: E1

IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: epoxy resin (number average molecular weight <= 700), reaction product:

bisphenol-A-(epichlorhydrin)

14.6. Special precautions for user

refer to chapter 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

according to Regulation (EC) No 1907/2006

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2010/75/EU on industrial

not relevant

emissions:

Directive 2004/42/EC on VOC in

not relevant

paints and varnishes:

Information according to Directive

E2 Hazardous to the Aquatic Environment

2012/18/EU (SEVESO III):

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin) Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl

sebacate

SECTION 16: Other information

Changes

Rev. 1,0; Initial release: 03.01.2024

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European LIst of Notified Chemical Substances

ECHA: European Chemicals Agency EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

according to Regulation (EC) No 1907/2006

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NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds WGK: Water Hazard Class (Germany)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure		
Skin Irrit. 2; H315	Calculation method		
Eye Dam. 1; H318	Calculation method		
Skin Sens. 1; H317	Calculation method		
Aquatic Chronic 2; H411	Calculation method		

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
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.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)