Telefax: 02407 / 568296-9



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kalteinbettmittel Epoclear (Harz)

Revision date: 07.06.2023 Product code: Page 1 of 15

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

1.1. Product identifier

Kalteinbettmittel Epoclear (Harz)

Further trade names

Epoclear Harz

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

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Schmitz-Metallographie GmbH

Street: Kaiserstraße 100
Place: D-52134 Herzogenrath
Telephone: 02407 / 568296-0

E-mail: info@schmitz-metallographie.de

Contact person: Herr Füllmann

E-mail: info@schmitz-metallographie.de lnternet: www.schmitz-metallographie.de

1.4. Emergency telephone 02407 / 568296-0 (Mo-Fr 9:00 - 16:00)

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 Irrit. 2; H319 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)

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

Signal word: Warning

Pictograms:





Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eve irritation.

H411 Toxic to aquatic life with long lasting effects.



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Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P391 Collect spillage.

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						
	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-	50-100 %			
	500-033-5	01-2119456619-26					
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411						
9003-36-5	Formaldehyde, oligomeric reaction	pane and phenol	10-25 %				
	500-006-8	01-2119454392-40					
	Skin Irrit. 2, Skin Sens. 1, Aquatic (
933999-84-9	Reaction products of hexane-1,6-di		10-25 %				
	618-939-5		01-2119463471-41				
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	17 H412					

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. I	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)	50-100 %					
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100						
9003-36-5	500-006-8	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	10-25 %					
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg							
933999-84-9	618-939-5	-5 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane						
oral: LD50 = 3741 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 all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. 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

Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

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 (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. 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

See protective measures under point 7 and 8.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

6.3. Methods and material for containment and cleaning up



according to Regulation (EC) No 1907/2006

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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.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see 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

When using do not eat, drink or smoke.

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. Only use containers specifically approved for the substance/product.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

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

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

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
25068-38-6	epoxy resin (number average molecular weight <= 700), rea	action product: bisphen	ol-A-(epichlorhydrin)				
Worker DNEL, acute		dermal	systemic	8,33 mg/kg bw/day			
Worker DNEL, long-term		dermal	systemic	8,33 mg/kg bw/day			
Worker DNEL,	acute	inhalation	systemic	12,25 mg/m³			
Worker DNEL,	long-term	inhalation	systemic	12,25 mg/m³			
Consumer DN	EL, long-term	dermal	systemic	3,571 mg/kg bw/day			



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Consumer DNEL, acute		dermal	systemic	3,571 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	0,75 mg/kg bw/day
Consumer DN	EL, long-term	oral	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
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2	2,3-epoxypropane and p	henol	
Worker DNEL,	long-term	inhalation	systemic	29,39 mg/m³
Worker DNEL,	long-term	dermal	systemic	104,15 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	8,7 mg/m³
Consumer DN	EL, long-term	dermal	systemic	62,5 mg/kg bw/day
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)	oxirane		
Worker DNEL,	long-term	inhalation	systemic	10,57 mg/m³
Worker DNEL,	long-term	inhalation	local	0,44 mg/m³
Worker DNEL,	acute	inhalation	systemic	10,57 mg/m³
Worker DNEL,	long-term	dermal	systemic	6 mg/kg bw/day
Consumer DN	EL, acute	inhalation	systemic	5,29 mg/m³
Consumer DN	EL, long-term	inhalation	systemic	5,29 mg/m³
Consumer DNEL, long-term		inhalation	local	0,27 mg/m³
Consumer DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	1,5 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	1,5 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	1,7 mg/kg bw/day

PNEC values

CAS No	Substance			
Environmenta	al compartment	Value		
25068-38-6 epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)				
Freshwater		0,006 mg/l		
Freshwater (i	ntermittent releases)	0,018 mg/l		
Marine water		0,0006 mg/l		
Freshwater s	ediment	0,996 mg/kg		
Marine sediment		0,0996 mg/kg		
Secondary poisoning		11 mg/kg		
Micro-organis	sms in sewage treatment plants (STP)	10 mg/l		
Soil		0,196 mg/kg		
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol			
Freshwater		0,003 mg/l		
Freshwater (intermittent releases)		0,025 mg/l		
Marine water		0 mg/l		
Freshwater sediment		0,294 mg/kg		
Marine sedim	ent	0,029 mg/kg		



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Micro-organisr	10 mg/l	
Soil		0,237 mg/kg
933999-84-9		
Freshwater		0,011 mg/l
Freshwater (intermittent releases)		0,115 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,283 mg/kg
Marine sediment		0,028 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		0,223 mg/kg

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

In case of prolonged or frequently repeated skin contact:

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

 $\label{eq:crossing} \mbox{CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 \ \mbox{mm}$

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: $0.5 \ \text{mm}$

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.

Before using check leak tightness / impermeability. 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.

Respiratory protection

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

Respiratory protection necessary at:



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- -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. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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: yellowish
Odour: characteristic
Odour threshold: not determined

Melting point/freezing point:

Boiling point or initial boiling point and

> 200 °C

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined Flash point: > 150 °C not determined Auto-ignition temperature: Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: not determined Water solubility: not determined

Solubility in other solvents

not determined

Dissolution rate: not relevant Partition coefficient n-octanol/water: SECTION 12: Ecological information Dispersion stability: not relevant Vapour pressure: not determined Density: 1,14 g/cm³ Bulk density: not determined 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: No data available

Self-ignition temperature

Solid: not determined Gas: not determined

Oxidizing properties

none

Other safety characteristics

Evaporation rate: not determined Solvent separation test: not determined Solvent content: not determined



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not determined

Solid content:

Sublimation point:

Softening point:

Pour point:

Viscosity / dynamic:

101 determined

102 mPa·s

103 mPa·s

(at 23 °C) Flow time:

Further Information

No information available.

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 information available.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
25068-38-6	epoxy resin (number aver	age molecular we	eight <=	700), reaction product: bis	sphenol-A-(epichlorhydrin					
	oral	LD50 >200 mg/kg	00	Rat	ECHA Dossier					
	dermal	LD50 >200 mg/kg	00	Rabbit.	ECHA Dossier					
9003-36-5	Formaldehyde, oligomeric	reaction products	s with 1	-chloro-2,3-epoxypropane	and phenol					
	oral	LD50 > 50 mg/kg	000	Rat	ECHA Dossier	OECD Guideline 401				
	dermal	LD50 > 20 mg/kg	000	Rat	ECHA Dossier	OECD Guideline 402				
933999-84-9	Reaction products of hexa	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane								
		I								



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oral	LD50 mg/kg	3741	Rat	Study report (1989)	OECD Guideline 401				

Irritation and corrosivity

Causes skin irritation.
Causes serious eye irritation.

Sensitising effects

bisphenol-A-(epichlorhydrin); Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane) epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin): In-vitro mutagenicity: Method: OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay): negative.; bacterial reverse mutation assay (e.g. Ames test): positive.; Literature information: ECHA Dossier; In-vivo mutagenicity: Method: -; Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies); Species: Rat female.; Exposure duration: 2 years; Result: NOAEL = 15 mg/kg (reduced body weight), NOAEL = 100 mg/kg (Toxicity); Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat; Result: NOEL = 750 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rat; Result: NOAEL = 180 mg/kg; Literature information: ECHA

May cause an allergic skin reaction. (epoxy resin (number average molecular weight <= 700), reaction product:

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

Dossier

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

STOT-repeated exposure

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

epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin) Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents); Species: Rat; Exposure duration: 90d; Result: NOAEL = 50 mg/kg; Literature information: ECHA Dossier

Aspiration hazard

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

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

The product has not been tested.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
25068-38-6	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		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			
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol								
	Acute fish toxicity	LC50	5,7 mg/l	96 h	Leuciscus idus	ECHA Dossier	WoE		



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	Acute algae toxicity	ErC50 mg/l	> 1,8	l	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	3,5 mg/l	48 h	Daphnia magna	ECHA Dossier	WoE
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211
	Acute bacteria toxicity	(EC50 >100 mg/l)	IC50	3 h	Activated sludge	ECHA Dossier	
933999-84-9	Reaction products of hexa	ne-1,6-diol v	with 2-(chlore	omethyl)	oxirane		
	Acute fish toxicity	LC50 - ca. 30,9 r	ca. 17,1 ng/l	96 h	Oncorhynchus mykiss	Study report (1991)	OECD Guideline 203
	Acute crustacea toxicity	EC50 ca. 57 mg/	ca. 39 - I	48 h	Daphnia magna	Study report (1989)	OECD Guideline 202

12.2. Persistence and degradability

The product has not been tested.

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).								
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-ep	ooxypropane and phenol							
	EU Method C.4-E (Closed Bottle Test)	0%	28	ECHA Dossier					
	Not easily bio-degradable (according to OECD-criteria).								

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
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2,7
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane	ca. 0,822

BCF

CAS No	Chemical name	BCF	Species	Source
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	150		ECHA Dossier
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane	3,57		Publication (2009)

12.4. Mobility in soil

No information 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%.



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12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

080199 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; wastes not otherwise

specified

List of Wastes Code - used product

080199 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; wastes not otherwise

specified

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



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

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M6

(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

Special Provisions: 274 335 375 601

Limited quantity: 5 L Excepted quantity: F1

Marine transport (IMDG)

Classification code:

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: F1 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

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

(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

UN 3082

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



according to Regulation (EC) No 1907/2006

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ENVIRONMENTALLY HAZARDOUS: Yes

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

bisphenol-A-(epichlorhydrin)

14.6. Special precautions for user

Safe handling: see section 7

Personal protection equipment: see section 8

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): not determined 2004/42/EC (VOC): not determined

Information according to 2012/18/EU E2 Hazardous to the Aquatic Environment

(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)

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

SECTION 16: Other information

Changes

Rev. 1,0; Initial release: 14.12.2018

Rev. 2,0; 04.01.2021 Changes in chapter: 12, 16. Rev 3,0; 07.06.2023, Changes in chapter: 1 - 16.

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



according to Regulation (EC) No 1907/2006

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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

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 Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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.





according to Regulation (EC) No 1907/2006

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