

Safety Data Sheet

according to UK REACH Regulation

GROUP RESIN GL

Revision date: 04.03.2025

Product code: 522

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

GROUP RESIN GL

Further trade names

HP-E29L RESIN
HP-E56L RESIN
HP-E111L RESIN
HP-E120WSI RESIN
HP-E120D RESIN
HP-E3000GL RESIN

UFI: 4WCQ-DR6R-WG58-GDVR

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

Polymer preparations and compounds

Uses advised against

Any use not mentioned in the product data sheet.

1.3. Details of the supplier of the safety data sheet

Company name:	HP-Textiles GmbH	
Street:	Otto-Hahn-Str. 22	
Place:	D-48480 Schapen	
Telephone:	+49 (0) 5905 94598-70	Telefax: +49 (0) 5905 94598-74
E-mail:	produktsicherheit@hp-textiles.com	
Contact person:	Safety department	
Internet:	www.hp-textiles.com	

1.4. Emergency telephone number:

+49 (0) 5905 945410-8 / Only available during office hours.

Further Information

The items mentioned under other trade names are not technically identical. A group safety data sheet was drawn up for mixtures with the same hazard characteristics as per Regulation (EC) 1907/2006.

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

Repr. 1A; H360F
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**GB CLP Regulation****Hazard components for labelling**

Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A)
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)
1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)

Signal word: Danger

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Pictograms:**Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.
P501	Dispose of contents/container to hazardous waste.

Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml**Signal word:**

Danger

Pictograms:**Hazard statements**

H317-H318-H360F

Precautionary statements

P101-P102-P280-P305+P351+P338-P310-P501

2.3. Other hazards

Results of PBT and vPvB assessment
not applicable

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1675-54-3	Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A)			50 - 75 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)			10 - 25 %
	701-263-0		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411			
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)			10 - 25 %
	219-371-7	603-072-00-7	01-2119494060-45	
	Repr. 1A, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H360F H332 H312 H302 H315 H318 H317 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. Limits, M-factors and ATE	
1675-54-3	216-823-5	Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A)	50 - 75 %
		dermal: LD50 = 23000 mg/kg; oral: LD50 = 15000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
	701-263-0	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)	10 - 25 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
2425-79-8	219-371-7	1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)	10 - 25 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 2150 mg/kg; oral: LD50 = 1163 mg/kg	

Further Information

Note: This hazard characteristics refer to the properties of pure ingredients, for the identification of the mixture (product), see Section 2 and 16.

Product does not contain SVHC substances and no listed PBT substances.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

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

After inhalation

When in doubt or if symptoms are observed, get medical advice. Provide fresh air. Put victim at rest, cover with a blanket and keep warm. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

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

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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After ingestion

Rinse mouth immediately and drink 1 glass of water. Induce vomiting when the affected person is not unconscious. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

First Aid, decontamination, treatment of symptoms.

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**

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. Foam. Carbon dioxide. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Fire class: B
In case of fire and/or explosion do not breathe fumes.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation.

For non-emergency personnel

Wear personal protection equipment. (See section 8.)

For emergency responders

Wear personal protection equipment. (See section 8.)

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Take up mechanically.
Treat the recovered material as prescribed in the section on waste disposal.
Clear contaminated areas thoroughly. 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

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Disposal: see section 13 See protective measures under point 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product. Remove contaminated clothing immediately and dispose off safely.

Further information on handling

Avoid contact with skin, eyes and clothes.

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: Oxidizing solids. Oxidizing liquids. Explosives. Food and fodder

Further information on storage conditions

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

7.3. Specific end use(s)

Polymer preparations and compounds

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1675-54-3	Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A)			
Worker DNEL, long-term		dermal		8,33 mg/kg bw/day
Worker DNEL,		inhalation		12,25 mg/m³
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)			
Worker DNEL, long-term		inhalation	systemic	29,39 mg/m³
Worker DNEL, long-term		dermal	systemic	104,15 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m³
Consumer DNEL, long-term		dermal	systemic	62,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	6,25 mg/kg bw/day
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)			
Consumer DNEL, long-term		inhalation	systemic	1,16 mg/m³
Consumer DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,33 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	6,66 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	4,7 mg/m³

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PNEC values

CAS No	Substance	
Environmental compartment		Value
1675-54-3	Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A)	
Freshwater		0,006 mg/l
Marine water		0,0006 mg/l
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)	
Freshwater		0,003 mg/l
Freshwater (intermittent releases)		0,025 mg/l
Marine water		0 mg/l
Freshwater sediment		0,294 mg/kg
Marine sediment		0,029 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,237 mg/kg
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)	
Freshwater		0,024 mg/l
Freshwater (intermittent releases)		0,24 mg/l
Marine water		0,002 mg/l
Freshwater sediment		0,084 mg/kg
Marine sediment		0,008 mg/kg
Secondary poisoning		0,028 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,003 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

Other information: DNEL - worker = 8,3 mg/kg

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

. Suitable eye protection: Tightly sealed safety glasses. BS/EN 166 / EN ISO 16321

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Suitable material:

NBR (Nitrile rubber). (> 0,5 mm)

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FKM (fluororubber). (> 0,5 mm)

PVC (Polyvinyl chloride). (0,5 mm)

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

Use of protective clothing. Suitable protective clothing: Lab apron.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:

Generation/formation of dust

Suitable respiratory protective equipment:

Combination filtering device (EN 14387) Type: A-P2/P3

Thermal hazards

Not known

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow
Odour:	characteristic

Test method

Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	>200 °C	
Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	>150 °C	
Auto-ignition temperature:	300 °C	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic:	not determined	
Water solubility:	Immiscible	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	OECD (TG) 117
Vapour pressure:	0,6 hPa	
(at 20 °C)		
Density (at 20 °C):	1,10-1,15 g/cm ³	
Relative vapour density:	not determined	

9.2. Other information**Information with regard to physical hazard classes****Explosive properties**

The product is not: Explosive. none

Sustained combustibility:

No data available

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solid content:	100 %
Sublimation point:	not determined
Softening point:	not determined

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Pour point:

not determined

Viscosity / dynamic:

1000 mPa·s IS

(at 25 °C)

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Unstabilized product can polymerize spontaneously. Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Strong acid. amines. Alkalis (alkalis), concentrated.

Radical former, Peroxides, Reducing agent

10.6. Hazardous decomposition productsIn case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂).**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A)				
	oral	LD50 15000 mg/kg	(rat)		
	dermal	LD50 23000 mg/kg	(rab)		
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1988)	OECD Guideline 402
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)				
	oral	LD50 1163 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2150 mg/kg	Rat	Study report (1972)	OECD Guideline 402
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

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Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A); Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F);

1,4-bis(2,3-epoxypropoxy)butane (reactive diluent))

Respiratory or skin sensitisation:

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. (1,4-bis(2,3-epoxypropoxy)butane (reactive diluent))

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

The statement is derived from the properties of the single components.

There is Evidence for: In-vitro mutagenicity

No evidence for: Carcinogenicity

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.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700):

Subchronic dermal toxicity: NOAEL = 10 mg/kg (90d) Rat

Subchronic oral toxicity: NOAEL = 50 mg/kg (90d) Rat

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 that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Further information

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

SECTION 12: Ecological information**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	Bis-[4-(2,3-epoxypropoxy)phenyl]propane (Epoxyresin-A)					
	Acute fish toxicity	LC50 2 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 11 mg/l	72 h	Scenedemus capricornutum		
	Acute bacteria toxicity	EC50 100 mg/l ()		Pseudomonas putida		
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Oncorhynchus mykiss	Study report (1998)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 1,8 mg/l	72 h	Raphidocelis subcapitata	Study report (1993)	OECD Guideline 201
	Acute crustacea toxicity	EL50 > 1000 mg/l	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202
	Crustacea toxicity	NOEC 0,3 mg/l	21 d	Daphnia magna	Study report (1984)	OECD Guideline 211
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)					
	Acute fish toxicity	LC50 24 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 > 160 mg/l	72 h	Raphidocelis subcapitata	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 76 mg/l	48 h	Daphnia magna (24h)	ECHA Dossier	
	Acute bacteria toxicity	EC50 >100 mg/l ()	3 h	Activated sludge	ECHA Dossier	

12.2. Persistence and degradability

Product is not easily biodegradable.

12.3. Bioaccumulative potential

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700): BCF 31 (calc.)

Bioaccumulation is not anticipated since this material is hydrolytically unstable.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)	2,7
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane (reactive diluent)	-0,269

BCF

CAS No	Chemical name	BCF	Species	Source
	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (Epoxyresin-F)	150		Other company data (

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 UK REACH.

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.

12.7. Other adverse effects

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No data available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700): hydrolyzed 82% (28d)

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Observe in addition any national regulations!

List of Wastes Code - residues/unused products

080111 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; waste paint and varnish containing organic solvents or other 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

Non-contaminated packages may be recycled. 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:**

UN3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(epoxy resin)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

Other applicable information (land transport)

Excepted quantity: E1

Inland waterways transport (ADN)

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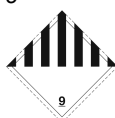
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14.1. UN number or ID number: UN3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Classification code: M6
 Special Provisions: 274 335 601
 Limited quantity: 5 L
Other applicable information (inland waterways transport)
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9

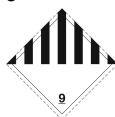


Marine pollutant: Yes
 Special Provisions: 274, 335
 Limited quantity: 5 L
 EmS: F-A, S-F

Other applicable information (marine transport)
 Excepted quantity: E1

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: A97 A158
 Limited quantity Passenger: 30 kg G
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

Other applicable information (air transport)

Excepted quantity: E1
 Passenger-LQ: Y964

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(epoxy resin)

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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

Directive 2010/75/EU on industrial emissions: 0 %

Directive 2004/42/EC on VOC in paints and varnishes: 0 %

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

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

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

Rev. : 5,0 - Initial release 08.11.2022

Rev. : 7,0 - Revision 24.03.2025

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Abbreviations and acronyms

Acute Tox: Acute toxicity

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Repr: Reproductive toxicity

Aquatic Chronic: Chronic aquatic hazard

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) (European Agreement concerning the

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

Concerning the International Transport of Dangerous Goods by Rail)

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

OSHA: Occupational Safety and Health Administration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

LOAEL: Lowest observed adverse effect level

NOAEC: No observed adverse effect concentration

LOAEC: Lowest observed adverse effect concentration

DNEL: Derived No Effect Level

PNEC: predicted no effect concentration

TSCA: Toxic Substances Control Act

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

NTP: National Toxicology Program

SARA: Superfund Amendments and Reauthorization Act

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

PBT: Persistent bioaccumulative toxic

SVHC: substance of very high conce

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

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ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety
assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Repr. 1A; H360F	Calculation method
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.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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.)