

RAKU® TOOL EP-2301 Resin

Revision date: 02.06.2021

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

1.1. Product identifier

RAKU® TOOL EP-2301 Resin

UFI: 2JC6-T011-K00V-WP7D

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

Use of the substance/mixture

Epoxy-component for epoxy-casting resin

Uses advised against

There are no data available on the mixture itself.

1.3. Details of the supplier of the safety data sheet

Company name: Suter Kunststoffe AG
 Street: Aefligenstrasse 3
 Place: CH-3312 Fraubrunnen
 Telephone: +41 (0)31 763 60 60
 e-mail: info@swiss-composite.ch

1.4. Emergency telephone number:

Tox Info Suisse
 Emergency number: 145 - from abroad: + 41 44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2
 Serious eye damage/eye irritation: Eye Dam. 1
 Respiratory or skin sensitisation: Skin Sens. 1
 Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.
 Causes serious eye damage.
 May cause an allergic skin reaction.
 Toxic to aquatic life with long lasting effects.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

bis-[4-(2,3-epoxypropoxy)phenyl]propane;
 1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether;
 2-propenoic acid, reaction products with pentaerythritol;
 hexamethylene diacrylate, hexane-1,6-diol diacrylate

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

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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according to UK REACH Regulation



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P310 present and easy to do. Continue rinsing.
P501 Immediately call a POISON CENTER/doctor.
Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of the following substances with non-hazardous admixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
1675-54-3	bis-[4-(2,3-epoxypropoxy)phenyl]propane	30 - < 35 %		
	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			
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	5 - < 10 %		
	219-371-7	603-072-00-7	01-2119494060-45	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H332 H312 H302 H315 H318 H317 H412			
1245638-61-2	2-propenoic acid, reaction products with pentaerythritol	1 - < 5 %		
	629-850-6		01-2119490003-49	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315 H318 H317 H411			
13048-33-4	hexamethylene diacrylate, hexane-1,6-diol diacrylate	1 - < 5 %		
	235-921-9	607-109-00-8	01-2119484737-22	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 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	30 - < 35 %
	dermal: LD50 = 23000 mg/kg; oral: LD50 = 11400 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100		
2425-79-8	219-371-7	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	5 - < 10 %
	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		
1245638-61-2	629-850-6	2-propenoic acid, reaction products with pentaerythritol	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 540 mg/kg		
13048-33-4	235-921-9	hexamethylene diacrylate, hexane-1,6-diol diacrylate	1 - < 5 %
	dermal: LD50 = 3650 mg/kg; oral: LD50 = > 5000 mg/kg		

Further Information

none

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.
Remove affected person from the danger area and lay down.

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After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.
In case of respiratory tract irritation, consult a physician.

After contact with skin

Wash with plenty of water/soap.
If skin irritation or rash occurs: Get medical advice/attention.

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.

After ingestion

Rinse mouth immediately and drink plenty of water.
Never give anything by mouth to an unconscious person or a person with cramps.
Call a physician immediately.
Do NOT induce vomiting.

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

There are no data available on the mixture itself.

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

There are no data available on the mixture itself.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Carbon dioxide (CO₂), Dry extinguishing powder, Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:
Carbon monoxide, Carbon dioxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

In case of vapour formation use respirator.
Provide adequate ventilation.
Wear personal protection equipment (refer to section 8).
Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Clear contaminated areas thoroughly.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

none

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed.

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Provide adequate ventilation.
Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Do not breathe vapour.
Wash hands before breaks and after work.
Do not eat, drink or smoke when using this product.
Avoid contact with skin, eyes and clothes.
Remove and wash contaminated clothes before re-use.

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.
Protect from direct sunlight.

Hints on joint storage

Incompatible with:
Oxidizing agent, Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feedingstuffs.
Keep at temperatures between 5°C and 40°C.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1317-65-3	Limestone, total inhalable	-	10		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1675-54-3	bis-[4-(2,3-epoxypropoxy)phenyl]propane			
Worker DNEL, long-term		inhalation	systemic	12,25 mg/m ³
Worker DNEL, acute		inhalation	systemic	12,25 mg/m ³
Worker DNEL, long-term		dermal	systemic	8,33 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	8,33 mg/kg bw/day
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether			
Worker DNEL, long-term		dermal	systemic	9,26 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	1,63 mg/m ³
1245638-61-2	2-propenoic acid, reaction products with pentaerythritol			
Worker DNEL, long-term		inhalation	systemic	7,35 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,04 mg/kg bw/day
13048-33-4	hexamethylene diacrylate, hexane-1,6-diol diacrylate			
Worker DNEL, long-term		inhalation	systemic	24,48 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,77 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	
Freshwater		0,006 mg/l
Freshwater (intermittent releases)		0,018 mg/l
Marine water		0,0006 mg/l
Freshwater sediment		0,996 mg/kg
Marine sediment		0,0996 mg/kg
Secondary poisoning		11 mg/kg
Micro-organisms 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		0,024 mg/l
Marine water		0,0024 mg/l
Freshwater sediment		0,084 mg/kg
Marine sediment		0,0084 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,0027 mg/kg
1245638-61-2	2-propenoic acid, reaction products with pentaerythritol	
Freshwater		0,0032 mg/l
Freshwater (intermittent releases)		0,032 mg/l
Marine water		0,00032 mg/l
Freshwater sediment		0,1512 mg/kg
Marine sediment		0,01512 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,0284 mg/kg
13048-33-4	hexamethylene diacrylate, hexane-1,6-diol diacrylate	
Freshwater		0,0015 mg/l
Marine water		0,00015 mg/l
Freshwater sediment		0,0137 mg/kg
Micro-organisms in sewage treatment plants (STP)		2,7 mg/l
Soil		0,00397 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting goggles

Hand protection

Chemical-resistant gloves (EN 374)

Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374):

butyl rubber (Butyl) - = 0.7 mm thickness; i.e. < Butoject 898> made by KCL.

Nitrile rubber (Nitrile) - 0.4 mm thickness : i.e.< Camatril Velours 730> made by KCL.

Because of the great variety of glove types, the manufacturer's instructions for use must be adhered to.

The data given refer to information from glove manufacturers or have been assessed by analogy to similar materials. It should be taken into consideration, that due to the great number of influential factors such as the temperature, the daily durability of chemicals resistant protective gloves may be considerably reduced in practice, compared to the permeation rate assessed according to EN 374.

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Skin protection

Wear suitable protective clothing.
Safety Shoes

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.
If product is sprayed, use fresh-air breathing apparatus or (only short-term use) a combination filter A2-P2.

Environmental exposure controls

There are no data available on the mixture itself.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste
Colour:	brown
Odour:	not determined

Test method

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 200 °C
Flash point:	> 200 °C

Flammability

Solid/liquid:	not determined
Gas:	not determined

Explosive properties

Product does not present an explosion hazard.

Auto-ignition temperature:	not determined
Decomposition temperature:	> 200 °C

Oxidizing properties

not applicable

pH-Value:	not determined	ISO 976
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Viscosity / dynamic: (at 25 °C)	Paste
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Water solubility: (at 20 °C)	Immiscible
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Partition coefficient n-octanol/water:	not determined
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Vapour pressure:	not determined
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Density (at 20 °C):	~ 0,7 g/cm ³
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Relative vapour density:	not determined
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9.2. Other information

Other safety characteristics

Evaporation rate:	not determined
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Further Information

There are no data available on the mixture itself.

SECTION 10: Stability and reactivity

10.1. Reactivity

Exothermic reaction with: Alkali (lye), Amines ,Alcohol

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

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No known hazardous reactions.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Alkali (lye), Oxidising agent, strong

10.6. Hazardous decomposition products

The product is stable under storage at normal ambient temperatures.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane				
	oral	LD50 mg/kg	11400	Rat	
	dermal	LD50 mg/kg	23000	Rat	
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether				
	oral	LD50 mg/kg	1163	Rat	
	dermal	LD50 mg/kg	> 2150	Rat	
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		
1245638-61-2	2-propenoic acid, reaction products with pentaerythritol				
	oral	LD50 mg/kg	540		
	dermal	LD50 mg/kg	> 2000		
13048-33-4	hexamethylene diacrylate, hexane-1,6-diol diacrylate				
	oral	LD50 mg/kg	> 5000	Rat	OECD 401
	dermal	LD50 mg/kg	3650	Rabbit	OECD 402

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

Contains epoxy constituents. May produce an allergic reaction. May cause an allergic skin reaction. (bis-[4-(2,3-epoxipropoxy)phenyl]propane; 1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether; 2-propenoic acid, reaction products with pentaerythritol; hexamethylene diacrylate, hexane-1,6-diol diacrylate)

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.

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Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxypropoxy)phenyl]propane					
	Acute fish toxicity	LC50 2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 11 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 1,8 mg/l	48 h	Daphnia magna (Big water flea)		
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether					
	Acute fish toxicity	LC50 19,8 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 > 160 mg/l	72 h	Pseudokirchneriella subcapitata		
1245638-61-2	2-propenoic acid, reaction products with pentaerythritol					
	Acute fish toxicity	LC50 3,2 mg/l	96 h	Cyprinus carpio (Common Carp)	OECD 203	
	Acute algae toxicity	ErC50 33 mg/l	96 h	Scenedesmus subspicatus	OECD 201	
	Acute bacteria toxicity	(> 100 mg/l)	3 h	Activated sludge	OECD203	
13048-33-4	hexamethylene diacrylate, hexane-1,6-diol diacrylate					
	Acute fish toxicity	LC50 < 10 mg/l	96 h	Cyprinus carpio (Common Carp)		
	Acute algae toxicity	ErC50 1,5 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 2,6 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(270 mg/l)	0,5 h	Activated sludge	OECD 209	

12.2. Persistence and degradability

There are no data available on the mixture itself.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
1245638-61-2	2-propenoic acid, reaction products with pentaerythritol			
	Biodegradable (OECD): 310	60 - 70 %	28	
	Poorly biodegradable.			
13048-33-4	hexamethylene diacrylate, hexane-1,6-diol diacrylate			
	Biodegradation	60 - 70%	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	3,242
1245638-61-2	2-propenoic acid, reaction products with pentaerythritol	1,45 - 2,71
13048-33-4	hexamethylene diacrylate, hexane-1,6-diol diacrylate	2,81

BCF

CAS No	Chemical name	BCF	Species	Source
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	31		

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

There are no data available on the mixture itself.

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Do not allow to enter into surface water or drains.

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

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

It is not possible to give this product a waste code number according to the European waste catalogue because only the intended use of the user consents the assignment of a specific code number.

The waste code number must be agreed with the disposer / manufacturer / competent authority.

Contaminated packaging

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

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III

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Hazard label:

9



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:

-

Marine transport (IMDG)

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxide derivatives)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



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:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxide derivatives)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158 A197

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



14.6. Special precautions for user

There are no data available on the mixture itself.

14.7. Maritime transport in bulk according to IMO instruments

There are no data available on the mixture itself.

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Other applicable information

There are no data available on the mixture itself.

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

Additional information

This product does not contain substances of very high concern > 0,1% (Regulation (EC) No 1907/2006 (REACH), Article 57).

National regulatory information

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:

bis-[4-(2,3-epoxypropoxy)phenyl]propane
1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether
2-propenoic acid, reaction products with pentaerythritol
hexamethylene diacrylate, hexane-1,6-diol diacrylate

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s) 3

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

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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Further Information

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

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Key literature references and sources for data Regulation (EC) No 1907/2006; Regulation (EC) No. 1272/2008

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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.)