

Safety Data Sheet

according to Regulation (EC) No 1907/2006

BINDULIN-WERK H.L.Schönleber GmbH

gegr. 1937
BINDULIN-WERK



DUO MIX EPOXY-KLEBER (Härterkomponente)

Revision date: 11.02.2021

Product code: MIX25B

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Creation date: 11.02.2021

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

1.1. Product identifier

DUO MIX EPOXY-KLEBER (Härterkomponente)

Further trade names

DUO MIX EPOXY-GLUE hardener

DUO MIX COLLA-EPOSSIDICA indurente

UFI: 3MN0-N0EA-S00G-KAX8

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

Use of the substance/mixture

For industry, manufacturing, consumer.

hardener component of a two-component adhesive system

1.3. Details of the supplier of the safety data sheet

Company name: BINDULIN-WERK H.L.Schönleber GmbH

Street: Wehlauer Str. 49-59

Place: D-90766 Fürth

Telephone: +49 (0)911 / 73104-8

Telefax: +49 (0)911 / 73104-5

e-mail: sicherheitsdatenblatt@bindulin.com

Responsible Department: Abteilung Produktsicherheit BINDULIN-WERK H.L.Schönleber GmbH

1.4. Emergency telephone

+49 (0)911 / 73104-9

number:

Further Information

Available in the following office hours

Monday - Friday from 7:30am to 12:00am and 12:30am to 4:00pm

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

pentaerythritol-PO-mercaptoglycerol

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

Signal word: Warning

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Pictograms:



GHS07

Hazard statements

- | | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful 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. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P301+P310 | IF SWALLOWED: Immediately call a doctor. |
| 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 waste removal facility in accordance to local regulations. |

Labelling of packages where the contents do not exceed 125 ml

Hazard components for labelling

pentaerythritol-PO-mercaptoglycerol
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

Signal word: Warning

Pictograms:



GHS07

Hazard statements

H317-H412

Precautionary statements

P101-P102-P273-P280-P301+P310-P501

Additional advice on labelling

Exceptions of (EG) No.1272/2008 Art.17 according to Annex 1, Paragraph 1.5.2 were claimed.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of the following ingredients with other substances classified as non-hazardous.

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
72244-98-5	pentaerythritol-PO-mercaptoglycerol			50 - 100 %
	615-735-8		01-2120118957-46	
	Skin Sens. 1, Aquatic Chronic 3; H317 H412			
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine			1 - 3 %
	234-148-4		01-2119970376-29	
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1B; H302 H314 H318 H317			
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene			0,25 - 0,5 %
	229-713-7		01-2119977097-24	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Consult a doctor if symptoms persist.
Remove contaminated clothing.

After inhalation

Take the affected person into fresh air and ensure that they can breathe freely. If breathing arrest occurs, give artificial respiration immediately. Call a doctor.

After contact with skin

Wash immediately with water and soap, rinse thoroughly. Remove contaminated clothing.
Do not wash with: solvents / thinners

After contact with eyes

Rinse gently with water for a few minutes. Remove any existing contact lenses if possible. Continue rinsing.
Never use force to open glued eyes. Do not forcibly remove contact lenses. Contact eye specialist / ophthalmologist immediately after.

After ingestion

Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Drink a lot of water. Call a physician immediately.

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

May adhere the throat and cause shortness of breath. May adhere eyelids.
May cause coughing, shortness of breath, headache, nausea, vomiting, eye damage / irritation.
Irritation may occur after mechanical removal of the adhesive.
For further information on symptomatology, see sections 2 and 11.

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

May cause sensitization in susceptible individuals. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media

Water spray jet, Extinguishing powder, Sand, Carbon dioxide (CO₂)
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may release irritating and toxic gases and vapors.
The following substances can develop in the event of intensive heating / fire: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂) or other hazardous combustion products.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. 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

Do not breathe gas/fumes/vapour/spray.
Avoid contact with eyes, skin and clothing.
Provide adequate ventilation.

6.2. Environmental precautions

Do not let it get into subterranean water, water bodies or sewage systems.

6.3. Methods and material for containment and cleaning up

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

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

Handling chemicals always requires caution.
Ensure good ventilation. Avoid aerosol formation.
Avoid contact with eyes, skin and clothing.
Wash hands thoroughly before breaks / end of work.
Do not eat, drink, smoke or sniff at work.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Vapours can form explosive mixtures with air.

Further information on handling

Read label before use.
Keep out of the reach of children.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Keep container tightly closed.
- Keep locked up and out of reach of children.
- Store in a dry, well-ventilated place.
- Recommended storage temperature: 5 - 25 °C
- Protect from frost, heat and direct sunlight.

Hints on joint storage

- Do not store together with strong oxidizing agents.
- Tenere lontano da cibo e bevande.

7.3. Specific end use(s)

hardener component of a two-component adhesive system

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
72244-98-5	pentaerythritol-PO-mercaptoglycerol			
Worker DNEL, long-term		inhalation	systemic	22 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	6,52 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1,61 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,9 mg/kg bw/day
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine			
Worker DNEL, long-term		inhalation	systemic	3,7 mg/m ³
Worker DNEL, acute		inhalation	systemic	7,5 mg/m ³
Worker DNEL, long-term		inhalation	local	3,7 mg/m ³
Worker DNEL, acute		inhalation	local	7,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,67 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,65 mg/m ³
Consumer DNEL, long-term		inhalation	local	0,65 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,2 mg/kg bw/day
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene			
Worker DNEL, long-term		inhalation	systemic	10,6 mg/m ³
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,6 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,5 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
72244-98-5	pentaerythritol-PO-mercaptoglycerol	
Freshwater		0,07 mg/l
Freshwater (intermittent releases)		0,12 mg/l
Marine water		0,007 mg/l
Freshwater sediment		322 mg/kg
Marine sediment		32 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	
Freshwater		0,0092 mg/l
Freshwater (intermittent releases)		0,092 mg/l
Marine water		0,00092 mg/l
Freshwater sediment		0,034 mg/kg
Marine sediment		0,00336 mg/kg
Micro-organisms in sewage treatment plants (STP)		18,1 mg/l
Soil		0,00132 mg/kg
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene	
Freshwater		0,24 mg/l
Freshwater (intermittent releases)		0,5 mg/l
Marine water		0,024 mg/l
Freshwater sediment		1,46 mg/kg
Marine sediment		0,146 mg/kg
Micro-organisms in sewage treatment plants (STP)		13 mg/l
Soil		0,152 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

Ensure good ventilation at the workplace.
Do not breathe in vapor / aerosol.

Protective and hygiene measures

Avoid contact with eyes, skin and clothing.
Remove contaminated clothing.
Wash hands thoroughly before breaks / end of work.
Do not eat, drink, smoke or sniff at work.

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Eye/face protection

Suitable eye protection: Tightly fitting protective goggles according to EN 166.

Hand protection

Use chemical-resistant gloves with CE-marking and a four-digit test number.

Glove material: Nitrile rubber - layer thickness: ≥ 0.1 mm

Breakthrough time (maximum wearing time): > 480 min.

The information provided by the manufacturer of the protective gloves on permeability and breakthrough times must be observed.

When the first signs of wear appear, the protective gloves should be replaced.

Skin protection

Depending on the type of application.

Respiratory protection

Required when limit values are exceeded.

Provide good ventilation.

Do not breathe gas/fumes/vapour/spray.

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

In case of contamination of sewage system / surface water / ground water, inform the responsible authorities.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	light yellow	
Odour:	amine like	
Odour threshold:	not determined	
pH-Value:		not determined

Changes in the physical state

Initial boiling point and boiling range: > 150 °C

Flash point: 100 °C

Flammability

Solid: not applicable

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Vapour pressure: not determined

Density (at 25 °C): $1,14$ g/cm³

Water solubility: Immiscible

Solubility in other solvents

not determined

Partition coefficient: not determined

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Viscosity / dynamic: 15000 mPa·s
(at 25 °C)
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.
For further information on storage see section 7.

10.2. Chemical stability

Stable when stored and handled as directed.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.
Avoid release into the environment.

10.5. Incompatible materials

Contact with the following materials leads to strong exothermic reactions: Strong oxidizing agents.

10.6. Hazardous decomposition products

The following substances can develop in the event of intensive heating / fire: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂) or other hazardous combustion products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
72244-98-5	pentaerythritol-PO-mercaptoglycerol				
	oral	LD50 2600 mg/kg	Ratte		OECD Guideline 401
	dermal	LD50 > 10200 mg/kg	Kaninchen		OECD Guideline 402
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine				
	oral	LD50 1669 mg/kg	Rat	Study report (1991)	OECD Guideline 401
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene				
	oral	LD50 > 215 - < 681 mg/kg	Rat	Study report (1990)	OECD Guideline 401

Irritation and corrosivity

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Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (pentaerythritol-PO-mercaptoglycerol; N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine)

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.

Additional information on tests

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

No animal testing has been carried out with the product.

SECTION 12: Ecological information

12.1. Toxicity

Schädlich für Wasserorganismen, mit langfristiger Wirkung.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
72244-98-5	pentaerythritol-PO-mercaptoglycerol					
	Acute fish toxicity	LC50 87 mg/l	96 h	Danio Rerio		OECD Guideline 203
	Acute crustacea toxicity	EC50 12 mg/l	48 h	Daphnia Magna		OECD Guideline 202
	Algae toxicity	NOEC 388 mg/l	3 d	Desmodesmus Subspicatus		OECD Guideline 201
	Crustacea toxicity	NOEC 3,5 mg/l	21 d	Daphnia Magna		OECD Guideline 211
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	activated sludge of predominantly domestic sewage		OECD Guideline 209
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio	Study report (2009)	OECD Guideline 203
	Acute algae toxicity	ErC50 21 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2004)	OECD Guideline 201
	Acute crustacea toxicity	EC50 9,22 mg/l	48 h	Daphnia magna	Study report (1992)	ISO 6341
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene					
	Acute fish toxicity	LC50 146,6 mg/l	96 h	Leuciscus idus	Study report (1990)	other: German Industrial Standard DIN 38
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (1994)	other: EEC guideline 79/831/EEC, Annex V
	Acute crustacea toxicity	EC50 50 mg/l	48 h	Daphnia magna	Study report (1993)	other: EC Directive 79/831/EEC, Annex V,
	Crustacea toxicity	NOEC >= 12 mg/l	21 d	Daphnia magna	Study report (2014)	OECD Guideline 211

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72244-98-5	pentaerythritol-PO-mercaptoglycerol	1,2
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	-0,56
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene	-0,43

BCF

CAS No	Chemical name	BCF	Species	Source
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene	0	Cyprinus carpio	Publication (2013)

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12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packaging

Clean mechanically. Completely emptied packages can be recycled.

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.

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

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

Inland waterways transport (ADN)

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14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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

Excepted quantity:

E1

Marine transport (IMDG)

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



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.

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

SECTION 15: Regulatory information

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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

2010/75/EU (VOC): 0,00%

2004/42/EC (VOC): 0,00%

Information according to 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.

SECTION 16: Other information

Abbreviations and acronyms

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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

BINDULIN-WERK H.L.Schönleber GmbH

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BINDULIN-WERK



DUO MIX EPOXY-KLEBER (Härterkomponente)

Revision date: 11.02.2021

Product code: MIX25B

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Creation date: 11.02.2021

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 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Further Information

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