

SAFETY DATA SHEET

## MF SolidBase Komp. B

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

#### 1.1. Product identifier

Trade name

MF SolidBase Komp. B

Unique formula identifier (UFI)

2Q89-70RV-C00A-GPC8

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

Relevant identified uses of the substance or mixture

Bauwirtschaft Anwendungen in Beschichtungen Harze für Epoxidsysteme

Uses advised against

No special

#### 1.3. Details of the supplier of the safety data sheet

Company and address

**MURFACE GmbH**

Birkenweg 8

D-33129 Delbrück

Germany

Tel. +49 52 50 - 4 19 93 00

E-mail

mail@murface.de

Revision

01-02-2022

SDS Version

1.0

#### 1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

See section 4 "First aid measures".

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Causes skin irritation. (H315)

May cause an allergic skin reaction. (H317)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Causes serious eye irritation. (H319)  
Toxic to aquatic life with long lasting effects. (H411)

#### Safety statement(s)

##### General

-

##### Prevention

Wear eye protection/protective gloves. (P280)  
Avoid breathing mist/vapour. (P261)  
Avoid release to the environment. (P273)  
Contaminated work clothing should not be allowed out of the workplace. (P272)

##### Response

Take off contaminated clothing and wash it before reuse. (P362+P364)  
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing. (P305+P351+P338)

##### Storage

-

##### Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

#### Hazardous substances

bis-[4-(2,3-epoxipropoxy)phenyl]propane  
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

#### 2.3. Other hazards

##### Additional labelling

Not applicable

##### Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS No.: 1675-54-3 EC No.: 216-823-5 REACH: 01-2119456619-26 Index No.: 603-073-00-2	>=50-<75%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	CAS No.: 3101-60-8 EC No.: 221-453-2 REACH: Index No.:	>=25-<50%	Skin Sens. 1, H317 Aquatic Chronic 2, H411	

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

No special



## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

#### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

#### Burns

Not applicable

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

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

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>).

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage temperature

Dry, cool and well ventilated

#### Incompatible materials

Copper alloy, containing copper

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
DNEL	3,6 mg/kg
Route of exposure	Dermal
Duration	Short term – Systemic effects - General population

Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
DNEL	3,6 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population

Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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DNEL	0,75 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population

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Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
DNEL	0,75 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

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Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
DNEL	8,3 mg/kg
Route of exposure	Dermal
Duration	Short term – Systemic effects - Workers

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Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
DNEL	8,3 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

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Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
DNEL	12,3 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers

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Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
DNEL	12,3 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	0,95 µg/cm <sup>2</sup>
Route of exposure	Dermal
Duration	Short term – Local effects - General population

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	0,95 µg/cm <sup>2</sup>
Route of exposure	Dermal
Duration	Long term – Local effects - General population

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	11,7 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - General population

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	3,3 mg/kg bw/day
Route of exposure	Dermal
Duration	Short term – Systemic effects - General population

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	3,3 mg/kg bw/day



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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Route of exposure	Dermal
Duration	Long term – Systemic effects - General population

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	11,7 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	1,6 µg/cm <sup>2</sup>
Route of exposure	Dermal
Duration	Short term – Local effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	1,6 µg/cm <sup>2</sup>
Route of exposure	Dermal
Duration	Long term – Local effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	19,6 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	19,6 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	5,6 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	5,6 mg/kg bw/day
Route of exposure	Dermal
Duration	Short term – Systemic effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	19,6 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers

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Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
DNEL	19,6 mg/m <sup>3</sup>
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

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## PNEC

Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

PNEC	0,006 mg/L
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0,018 mg/L
Route of exposure	Intermittent release
Duration of Exposure	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0,0006 mg/L
Route of exposure	Marine water
Duration of Exposure	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0,996 mg/L
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0,0996 mg/L
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	0,196 mg/L
Route of exposure	Soil
Duration of Exposure	
Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
PNEC	10 mg/L
Route of exposure	Activated Sludge Plant
Duration of Exposure	
Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
PNEC	0,0075 mg/L
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
PNEC	0,075 mg/L
Route of exposure	Intermittent release
Duration of Exposure	
Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
PNEC	0,00075 mg/L
Route of exposure	Marine water
Duration of Exposure	
Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
PNEC	33,54 mg/kg



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
PNEC	3,354 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
PNEC	11,4 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether
PNEC	100 mg/L
Route of exposure	Activated Sludge Plant
Duration of Exposure	

## 8.2. Exposure controls

Control is unnecessary if the product is used as intended.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### Hygiene measures

Take off contaminated clothing and wash it before reuse.

### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment

### Generally

Use only CE marked protective equipment.

No specific requirements

### Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation			
In case of insufficient ventilation	P1		EN 14387



### Skin protection




No specific requirements

### Hand protection






According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	
Vinyl/PVC	-	> 480	EN374-3, EN388, EN511	
Polyvinyl alcohol (PVA)	-	> 480	EN374-2, EN374-3, EN388	

### Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

light yellow

#### Odour / Odour threshold

Characteristic

#### pH

Testing not relevant or not possible due to nature of the product.

#### Density (g/cm<sup>3</sup>)

1.12 (25 °C)

#### Kinematic viscosity

700-1000 mPa.s (25 °C)

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

##### Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

##### Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

##### Boiling point (°C)

>200

##### Vapour pressure

<5 hPa

##### Relative vapour density

Testing not relevant or not possible due to nature of the product.

##### Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

#### Data on fire and explosion hazards

##### Flash point (°C)



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

>100

#### Ignition (°C)

Testing not relevant or not possible due to nature of the product.

#### Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

#### Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

#### Solubility

##### Solubility in water

Insoluble

##### n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

##### Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

#### 9.2. Other information

##### Other physical and chemical parameters

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

Violent reaction with: amines. acid

#### 10.4. Conditions to avoid

Protect from heat.

#### 10.5. Incompatible materials

Oxidizing agent, strong. Strong acid amines

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

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

##### Acute toxicity

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	15000 mg/kg
Other information	

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	23000 mg/kg



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### Other information

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/irritation

Causes serious eye irritation.

##### Respiratory sensitisation

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

##### Skin sensitisation

May cause an allergic skin reaction.

##### Germ cell mutagenicity

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

##### Carcinogenicity

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

##### Reproductive toxicity

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.

#### 11.2. Information on other hazards

##### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

##### Endocrine disrupting properties

No special

##### Other information

bis-[4-(2,3-epoxipropoxy)phenyl]propane has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
Test method	
Species	Fish, <i>Oncorhynchus mykiss</i>
Compartment	
Duration	96 hours
Test	LC50
Result	2 mg/L
Other information	

Product/substance	bis-[4-(2,3-epoxipropoxy)phenyl]propane
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	ErC50
Result	11 mg/L



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### Other information

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	1,8 mg/L
Other information	

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	21 days
Test	NOEC
Result	0,55 mg/L
Other information	

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Species	
Compartment	
Duration	8 hours
Test	EC50
Result	>42,6 mg/L
Other information	

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

Product/substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Test method	
Potential bioaccumulation	No data available
LogPow	3,242
BCF	100-3000
Other information	

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Endocrine disrupting properties

No special

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

HP 13 – Sensitising

HP 14 – Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

Not applicable

#### Specific labelling

Not applicable

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

### 14.1. - 14.4.

This product is within scope of the regulations of transport of dangerous goods.

#### ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( EPOXISHARZ, EPOXID DERIVAT)	9	III	3 (-)

#### IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( EPOXISHARZ, EPOXID DERIVAT)	9	III	F-A, S-F

#### MARINE POLLUTANT

Yes

#### IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( EPOXISHARZ, EPOXID DERIVAT)	9	III

### 14.5. Environmental hazards

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### 14.6. Special precautions for user

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

No data available



## SECTION 15: Regulatory information

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

#### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

#### Demands for specific education

No specific requirements

#### SEVESO - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

#### Additional information

Not applicable

#### Sources

The Management of Health and Safety at Work Regulations 1999

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

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.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit.  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVCB = Complex hydrocarbon substance  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

#### The safety data sheet is validated by

Murface

#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

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