



## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : MIXFILL 80 BASE  
Product code : 2100.  
EPOXY RESIN

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

Recommended use : Epoxy resin  
Uses advised against : data not available

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

Registered company name : Suter Kunststoffe AG  
Address : Aefligenstrasse 3, CH-3312 Fraubrunnen  
Telephone : +41 (0)31 763 60 60 Fax : +41 (0)31 763 60 61  
e-mail: info@swiss-composite.ch  
Site web : <https://www.swiss-composite.ch>

#### 1.4. Emergency telephone number : .

Association/Organisation : ToxInfo Suisse, Tel. 145, International +41 (0)44 251 51 51

### SECTION 2 : HAZARDS IDENTIFICATION

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

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).  
Eye irritation, Category 2 (Eye Irrit. 2, H319).  
Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Germ cell mutagenicity, Category 2 (Muta. 2, H341).  
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

#### 2.2. Label elements

##### In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS07



GHS08



GHS09

Signal Word :

WARNING

Product identifiers :

EC 500-006-8

EC 216-823-5

EC 218-259-5

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL  
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE  
DIGLYCIDYL ANILINE

Additional labeling :

EUH205

Contains epoxy constituents. May produce an allergic reaction.

Hazard statements :

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects .
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements - Prevention :	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response :	
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 present and easy to do. Continue rinsing.
P362 + P364	Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
CAS: 9003-36-5 EC: 500-006-8 REACH: 01-2119454392-40-XXXX  FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411		50 $\leq$ x % < 100
CAS: 1675-54-3 EC: 216-823-5 REACH: 01-2119456619-26-XXXX  2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411		10 $\leq$ x % < 25
CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX  BENZYL ALCOHOL	GHS07 Wng Acute Tox. 4, H302 Eye Irrit. 2, H319 Acute Tox. 4, H332	[1]	2.5 $\leq$ x % < 10
CAS: 2095-06-9 EC: 218-259-5 REACH: 01-2120782027-53-XXXX  DIGLYCIDYL ANILINE	GHS07, GHS08 Wng Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Muta. 2, H341	[2]	2.5 $\leq$ x % < 10
CAS: 7631-86-9 EC: 231-545-4 REACH: 01-2119379499-16-XXXX  SILICON DIOXIDE		[1]	2.5 $\leq$ x % < 10

(Full text of H-phrases: see section 16)

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

#### 4.1. Description of first aid measures

##### In the event of exposure by inhalation :

If inhaled, move the patient to fresh air and keep warm and rest.  
Consult a doctor.

##### In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.  
If there is any redness, pain or visual impairment, consult an ophthalmologist.  
Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

##### In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.  
Watch out for any remaining product between skin and clothing, watches, shoes, etc.  
In the event of an allergic reaction, seek medical attention.  
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

##### In the event of swallowing :

Do not give the patient anything orally.  
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.  
Seek medical attention immediately, showing the label.

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

No data available.

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

##### Information for the doctor :

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.  
Contact a specialist for treatment poisoning if large quantities have been ingested or inhaled.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

#### 5.1. Extinguishing media

##### Suitable methods of extinction

In the event of a fire, use :  
- sprayed water or water mist  
- foam  
- carbon dioxide (CO<sub>2</sub>)  
- powder

##### Unsuitable methods of extinction

In the event of a fire, do not use :  
- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.  
Do not breathe in smoke.  
In the event of a fire, the following may be formed :  
- carbon monoxide (CO)  
- carbon dioxide (CO<sub>2</sub>)

#### 5.3. Advice for firefighters

Firefighters should wear suitable protective clothing and a respirator mask with self- full operated in positive pressure mode.  
Wear conform with the European standard EN 469.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

##### For non first aid worker

Avoid any contact with the skin and eyes.

##### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

#### 6.2. Environmental precautions

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Storage**

Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from heat sources.

Keep container tightly closed in a dry place.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

Scope advised: coating

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME :	VME :	Excess	Notes
100-51-6		5 ppm 22 mg/m <sup>3</sup>		2(l)
7631-86-9		4 E mg/m <sup>3</sup>		

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

BENZYL ALCOHOL (CAS: 100-51-6)

**Final use:**

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

**Final use:****Workers.**

Dermal contact.

Short term systemic effects.

40 mg/kg de poids corporel/jour

Dermal contact.

Long term systemic effects.

8 mg/kg de poids corporel/jour

Inhalation.

Short term systemic effects.

110 mg de substance/m<sup>3</sup>

Inhalation.

Long term systemic effects.

22 mg de substance/m<sup>3</sup>

**Consumers.**

## MIXFILL 80 BASE - 2100

Exposure method: Ingestion.  
 Potential health effects: Long term systemic effects.  
 DNEL : 4 mg/kg de poids corporel/jour

Exposure method: Ingestion.  
 Potential health effects: Short term systemic effects.  
 DNEL : 20 mg/kg de poids corporel/jour

Exposure method: Dermal contact.  
 Potential health effects: Long term systemic effects.  
 DNEL : 4 mg/kg de poids corporel/jour

Exposure method: Dermal contact.  
 Potential health effects: Short term systemic effects.  
 DNEL : 20 mg/kg de poids corporel/jour

Exposure method: Inhalation.  
 Potential health effects: Long term systemic effects.  
 DNEL : 5.4 mg de substance/m3

Exposure method: Inhalation.  
 Potential health effects: Short term systemic effects.  
 DNEL : 27 mg de substance/m3

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

**Final use:****Workers.**

Exposure method: Dermal contact.  
 Potential health effects: Short term systemic effects.  
 DNEL : 8.3 mg/kg de poids corporel/jour

Exposure method: Dermal contact.  
 Potential health effects: Long term systemic effects.  
 DNEL : 8.3 mg/kg de poids corporel/jour

Exposure method: Inhalation.  
 Potential health effects: Short term systemic effects.  
 DNEL : 12.3 mg de substance/m3

Exposure method: Inhalation.  
 Potential health effects: Long term systemic effects.  
 DNEL : 12.3 mg de substance/m3

**Final use:****Man exposed via the environment.**

Exposure method: Ingestion.  
 Potential health effects: Short term systemic effects.  
 DNEL : 0.75 mg/kg de poids corporel/jour

Exposure method: Ingestion.  
 Potential health effects: Long term systemic effects.  
 DNEL : 0.75 mg/kg de poids corporel/jour

Exposure method: Dermal contact.  
 Potential health effects: Short term systemic effects.  
 DNEL : 3.6 mg/kg de poids corporel/jour

Exposure method: Dermal contact.  
 Potential health effects: Long term systemic effects.  
 DNEL : 3.6 mg/kg de poids corporel/jour

Exposure method: Inhalation.  
 Potential health effects: Short term systemic effects.  
 DNEL : 0.75 mg de substance/m3

Exposure method: Inhalation.

## MIXFILL 80 BASE - 2100

Potential health effects: Long term systemic effects.  
DNEL : 0.75 mg de substance/m3

## FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

**Final use:** **Workers.**  
Exposure method: Dermal contact.  
Potential health effects: Short term local effects.  
DNEL : 8.3 µg de substance/cm2

Exposure method: Dermal contact.  
Potential health effects: Long term systemic effects.  
DNEL : 104.15 mg/kg de poids corporel/jour

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 29.39 mg de substance/m3

**Final use:** **Man exposed via the environment.**  
Exposure method: Ingestion.  
Potential health effects: Long term systemic effects.  
DNEL : 6.25 mg/kg de poids corporel/jour

Exposure method: Dermal contact.  
Potential health effects: Long term systemic effects.  
DNEL : 62.5 mg/kg de poids corporel/jour

Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 8.7 mg de substance/m3

**Predicted no effect concentration (PNEC):**

## BENZYL ALCOHOL (CAS: 100-51-6)

Environmental compartment: Soil.  
PNEC : 0.456 mg/kg

Environmental compartment: Fresh water.  
PNEC : 1 mg/l

Environmental compartment: Sea water.  
PNEC : 0.1 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 2.3 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 5.27 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.527 mg/kg

Environmental compartment: Waste water treatment plant.  
PNEC : 39 mg/l

## 2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Environmental compartment: Soil.  
PNEC : 0.05 mg/kg

Environmental compartment: Fresh water.  
PNEC : 3 µg/l

Environmental compartment: Sea water.  
PNEC : 0.3 µg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.013 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 0.5 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.5 mg/kg

Environmental compartment: Waste water treatment plant.  
PNEC : 10 mg/l

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)  
Environmental compartment: Soil.  
PNEC : 0.237 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.003 mg/l

Environmental compartment: Sea water.  
PNEC : 0.0003 mg/l

Environmental compartment: Intermittent waste water.  
PNEC : 0.0254 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 0.294 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.0294 mg/kg

Environmental compartment: Waste water treatment plant.  
PNEC : 10 mg/l

## 8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

#### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

Mask with filter type A, B, E, K, P

Attention! If the protection group is insufficient.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

#### General information :

Physical state :	Paste.
Color:	grey

#### Important health, safety and environmental information

pH :	Not relevant.
Boiling point/boiling range :	Not relevant.
Flash Point Interval :	FP > 100°C.
Vapour pressure (50°C) :	Not relevant.
Density :	0.65 ± 0.04 @ 20 °C
Water solubility :	Insoluble.
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

### 9.2. Other information

No data available.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

May cause an allergic reaction by skin contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and a respiratory tract sensitiser as well as an irritant.



Constituents with a low molecular weight irritate the eyes, mucous membranes and the skin  
Repeated contact with the skin may cause irritation and hypersensitisation, possibly in combination with other epoxide compounds.  
Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.

#### 11.1.1. Substances

##### Acute toxicity :

SILICON DIOXIDE (CAS: 7631-86-9)

Oral route : LD50 > 5110 mg/kg  
Species : Rat  
OCDE Ligne directrice 401 (Toxicité aiguë par voie orale)

Dermal route : LD50 > 5000 mg/kg  
Species : Rabbit

Inhalation route (n/a) : LC50 = 0.139 mg/l  
Species : Rat

DIGLYCIDYL ANILINE (CAS: 2095-06-9)

Oral route : LD50 = 1620 mg/kg  
Species : Rat

BENZYL ALCOHOL (CAS: 100-51-6)

Oral route : LD50 = 1620 mg/kg  
Species : Rat

Dermal route : LD50 = 2000 mg/kg  
Species : Rat

Inhalation route (n/a) : LC50 = 4.178 mg/l  
Species : Rat  
OCDE Ligne directrice 403 (Toxicité aiguë par inhalation)  
Duration of exposure : 4 h

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Oral route : LD50 = 11400 mg/kg  
Species : Rat

Dermal route : LD50 = 2000 mg/kg  
Species : Rat

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

Oral route : LD50 > 2000 mg/kg  
Species : Rat

Dermal route : LD50 > 2000 mg/kg  
Species : Rabbit

##### Skin corrosion/skin irritation :

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Species : Rabbit  
OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

Species : Rabbit  
OCDE Ligne directrice 404 (Effet irritant/corrosif aigu sur la peau.)

##### Serious damage to eyes/eye irritation :

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

Conjunctival redness : Average score = 0  
Species : Rabbit

Conjunctival oedema : Average score = 0  
Species : Rabbit  
OCDE Ligne directrice 405 (Effet irritant/corrosif aigu sur les yeux)

**Respiratory or skin sensitisation :**BENZYL ALCOHOL (CAS: 100-51-6)  
Guinea Pig Maximisation Test (GMPT) :Non-sensitiser.  
Species : Guinea pig  
OCDE Ligne directrice 406 (Sensibilisation de la peau)**Carcinogenicity :**BENZYL ALCOHOL (CAS: 100-51-6)  
Carcinogenicity Test :Negative.  
No carcinogenic effect.  
Species : Mouse  
OCDE Ligne directrice 453 (Études combinées de toxicité chronique et de cancérogénèse)**Reproductive toxicant :**SILICON DIOXIDE (CAS: 7631-86-9)  
No toxic effect for reproduction**Specific target organ systemic toxicity - repeated exposure :**BENZYL ALCOHOL (CAS: 100-51-6)  
Oral route :C = 400 mg/kg poids corporel/jour  
Species : Rat  
Duration of exposure : 90 jours**11.1.2. Mixture****Respiratory or skin sensitisation :**

Contains epoxy compounds. May cause an allergic reaction.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 1675-54-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**SECTION 12 : ECOLOGICAL INFORMATION**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity****12.1.1. Substances**

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Fish toxicity : LC50 = 1.3 mg/l  
Duration of exposure : 96 hCrustacean toxicity : EC50 = 2.1 mg/l  
Species : Daphnia sp.  
Duration of exposure : 48 h  
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)Algae toxicity : ECr50 > 11 mg/l  
Duration of exposure : 72 hSILICON DIOXIDE (CAS: 7631-86-9)  
Fish toxicity : LC50 > 10000 mg/l  
Species : Brachydanio rerio  
Duration of exposure : 96 h  
OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)Crustacean toxicity : EC50 > 1000 mg/l  
Species : Daphnia magna  
Duration of exposure : 24 h  
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

BENZYL ALCOHOL (CAS: 100-51-6)

Fish toxicity :	LC50 = 460 mg/l Species : Pimephales promelas Duration of exposure : 96 h OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)
Crustacean toxicity :	EC50 = 230 mg/l Species : Daphnia magna Duration of exposure : 48 h OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)
	NOEC = 51 mg/l Species : Daphnia magna Duration of exposure : 21 jours OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)
Algae toxicity :	ECr50 = 770 mg/l Duration of exposure : 72 h OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)
	NOEC = 310 mg/l Duration of exposure : 72 h OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)
FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)	
Fish toxicity :	LC50 = 2.54 mg/l Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 2.55 mg/l Species : Daphnia sp. Duration of exposure : 48 h OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)
Algae toxicity :	ECr50 > 1000 mg/l Species : Selenastrum capricornutum Duration of exposure : 72 h OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

### 12.2. Persistence and degradability

#### 12.2.1. Substances

SILICON DIOXIDE (CAS: 7631-86-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

BENZYL ALCOHOL (CAS: 100-51-6)

Biodegradability : Rapidly degradable.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

Biodegradability : Non-rapidly degradable.

### 12.3. Bioaccumulative potential

#### 12.3.1. Substances

BENZYL ALCOHOL (CAS: 100-51-6)

Octanol/water partition coefficient : log K<sub>ow</sub> = 1.1

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Octanol/water partition coefficient : log K<sub>ow</sub> = 4

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

Octanol/water partition coefficient : log K<sub>ow</sub> = 3.3

Bioaccumulation : BCF = 150

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :**

WGK 2 : Hazardous for water.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

**14.1. UN number**

3077

**14.2. UN proper shipping name**

UN3077=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)

**14.3. Transport hazard class(es)**

- Classification :



9

**14.4. Packing group**

III

**14.5. Environmental hazards**

- Environmentally hazardous material :

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
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	9	M7	III	9	90	5 kg	274 335 375 601	E1	3	-
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\*Not subject to this regulation if Q ≤ 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	9	-	III	5 kg	F-A,S-F	274 335 969	E1

\*Not subject to this regulation if Q ≤ 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	956	400 kg	956	400 kg	A97 A158 A179 A197	E1
	9	-	III	Y956	30 kg G	-	-	A97 A158 A179 A197	E1

\*Not subject to this regulation if Q ≤ 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15 : REGULATORY INFORMATION

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

#### - Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/669 (ATP 11)

#### - Container information:

No data available.

#### - Particular provisions :

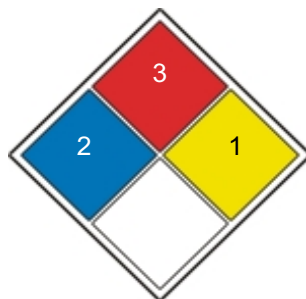
No data available.

#### - German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 2 : Hazardous for water.

#### - Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=2 Inflammability=3 Instability/Reactivity=1 Specific Risk=none



### 15.2. Chemical safety assessment

No data available.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

#### Wording of the phrases mentioned in section 3 :

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects .

H411 Toxic to aquatic life with long lasting effects.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

GHS08 : Health hazard

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.