



## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

#### 1.1. Product identifier

Product name : SG 715 BLANC  
Product code : 926.  
EPOXY RESIN  
UFI : F9J6-P0G9-4009-JCWA

#### 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 : SICOMIN Composites.  
Address : 31 avenue de la Lardiere - BP 23.13161.Chateauneuf les Martigues.France.  
Telephone : +33 (0)4 42 42 30 20. Fax : +33 (0)4 42 81 29 29.  
composites@sicomin.com  
Site web : <http://www.sicomin.com>  
AUSTRALIAN Importer : Lavender CE Pty Ltd - 108 Westgate Street - Wacol, Qld, 4076 AUSTRALIA / M: 0409 892 032 / Ph: +61 7 3255 6924 /  
Fax: +61 7 3255 6923 / Web: [www.lavender-ce.com](http://www.lavender-ce.com) / Email: [sheading@lavender-ce.com](mailto:sheading@lavender-ce.com)

#### 1.4. Emergency telephone number : .

Association/Organisation : INRS / ORFILA tél: +33(0)1.45.42.59.59 - (FRANCE) .

#### Other emergency numbers

Health and Safety Executive (HSE) Chemicals Regulation Directorate - Telephone: +44 151 951 3317 - USA : +1/ 800/ 424.9300 -  
AUSTRALIA : Emergency Poison Advice : 131 126

### SECTION 2 : HAZARDS IDENTIFICATION

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

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

Skin corrosion, Category 1C (Skin Corr. 1C, H314).  
Serious eye damage, Category 1 (Eye Dam. 1, H318).  
Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Germ cell mutagenicity, Category 2 (Muta. 2, H341).  
Reproductive toxicity, Category 1B (Repr. 1B, H360F).  
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 :



GHS09

GHS07

GHS08

GHS05

Signal Word :

DANGER

Product identifiers :

EC 216-823-5                    2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE  
EC 701-263-0                    FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL  
EC 608-489-8                    1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-, POLYMER WITH (CHLOROMETHYL)OXIRANE

603-103-00-4 OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS.  
 EC 249-237-3 METHYL TOLUENESULPHONATE  
 EC 201-283-5 METHYL TOLUENE-4-SULPHONATE  
 Additional labeling :  
 EUH205 Contains epoxy constituents. May produce an allergic reaction.  
 For professional users only.

## Hazard statements :

H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H341 Suspected of causing genetic defects .  
 H360F May damage fertility.  
 H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements - Prevention :

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash hands thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/  
 ...

## Precautionary statements - Response :

P302 + P352 IF ON SKIN: Wash with plenty of water/...  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor/...  
 P363 Wash contaminated clothing before reuse.  
 P391 Collect spillage.

**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.

The mixture does not contain substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

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

Identification	Classification (EC) 1272/2008	Note	%
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		25 $\leq$ x % < 50
EC: 701-263-0 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		10 $\leq$ x % < 25
CAS: 14808-60-7 EC: 238-878-4 REACH: N.A ( Annexe V.7)  QUARTZ		[1]	10 $\leq$ x % < 25
CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17-XXXX  TITANIUM DIOXIDE (IN THE FORM OF A POWDER CONTAINING NOT 1 %		[1]	10 $\leq$ x % < 25

OR MORE PARTICLES OF A DIAMETER ≤ 10 µM)			
CAS: 30499-70-8 EC: 608-489-8  1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-, POLYMER WITH (CHLOROMETHYL)OXIRANE	GHS05, GHS09, GHS07, GHS08 Dgr Skin Corr. 1C, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Muta. 2, H341 Repr. 1B, H360F Aquatic Chronic 2, H411	[2]	2.5 ≤ x % < 10
CAS: 67762-90-7 EC: 614-122-2  DIOXYDE DE SILICE AMORPHE		[nano]	1 ≤ x % < 2.5
INDEX: 603-103-00-4 CAS: 68609-97-2 EC: 271-846-8 REACH: 01-2119485289-22-XXXX  OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS.	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317		0 ≤ x % < 1
CAS: 28804-47-9 EC: 249-237-3  METHYL TOLUENESULPHONATE	GHS06 Dgr Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		0 ≤ x % < 1
CAS: 80-48-8 EC: 201-283-5  METHYL TOLUENE-4-SULPHONATE	GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317		0 ≤ x % < 1

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
CAS: 1675-54-3 EC: 216-823-5 REACH: 01-2119456619-26-XXXX  2,2'-[(1-METHYLETHYLIDENE)BIS(4 ,1-PHENYLENEOXYMETHYLENE)]BISOX IRANE	Skin Irrit. 2: H315 ≥5% Eye Irrit. 2: H319 C≥ 5%	dermal: ATE = 2000 mg/kg BW oral: ATE = 11400 mg/kg BW
CAS: 67762-90-7 EC: 614-122-2  DIOXYDE DE SILICE AMORPHE		inhalation: ATE = 0.139 mg/l (dust/mist)
CAS: 28804-47-9 EC: 249-237-3  METHYL TOLUENESULPHONATE		oral: ATE = 341 mg/kg BW
CAS: 80-48-8 EC: 201-283-5  METHYL TOLUENE-4-SULPHONATE		oral: ATE = 341 mg/kg BW

**Nanoform**

Identification	Nanoform
CAS: 67762-90-7 EC: 614-122-2	

DIOXYDE DE SILICE AMORPHE

**Information on ingredients :**

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

[Nano] Nanoform.

[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 breathing is irregular or stopped, that qualified personnel provide artificial respiration and call a doctor.

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

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

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

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.

Remove any soiled or splashed clothing immediately.

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
- 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**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

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.

Avoid exposure to pregnant women and warn women of child-bearing age of the possible risks

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

**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 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.

Store away from heat and cold.

**Packaging**

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

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

Suggested application : Epoxy tooling gelcoat

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

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.05 mg/m3	-	-	-	R
13463-67-7	10 mg/m3			A4	

- China (GBZ 2.1, 2007) :

CAS	TWA :	STEL :	Anm :	TWA :	STEL :	Anm :
14808-60-7	0.7 mg/m3	1 mg/m3	-	-	R	
13463-67-7	8 mg/m3					

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
14808-60-7	-	0.1 A	-	-	-	25

13463-67-7	-	10	-	-	-	-
- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), 2019) :						
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
14808-60-7				n. d. y. vease		
13463-67-7	10 mg/m <sup>3</sup>					

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
14808-60-7	0.3 mg/m <sup>3</sup>	-	-	-	R	
13463-67-7	4 mg/m <sup>3</sup>					

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

TITANIUM DIOXIDE (IN THE FORM OF A POWDER CONTAINING NOT 1 % OR MORE PARTICLES OF A DIAMETER <= 10 µM) (CAS: 13463-67-7)

**Final use:** **Workers.**  
 Exposure method: Inhalation.  
 Potential health effects: Long term local effects.  
 DNEL : 10 mg of substance/m<sup>3</sup>

**Final use:** **Consumers.**  
 Exposure method: Ingestion.  
 Potential health effects: Long term systemic effects.  
 DNEL : 700 mg/kg body weight/day

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

**Final use:** **Workers.**  
 Exposure method: Dermal contact.  
 Potential health effects: Short term local effects.  
 DNEL : 8.3 µg of substance/cm<sup>2</sup>

Exposure method: Dermal contact.  
 Potential health effects: Long term systemic effects.  
 DNEL : 104.15 mg/kg body weight/day

Exposure method: Inhalation.  
 Potential health effects: Long term systemic effects.  
 DNEL : 29.39 mg of substance/m<sup>3</sup>

**Final use:** **Man exposed via the environment.**  
 Exposure method: Ingestion.  
 Potential health effects: Long term systemic effects.  
 DNEL : 6.25 mg/kg body weight/day

Exposure method: Dermal contact.  
 Potential health effects: Long term systemic effects.  
 DNEL : 62.5 mg/kg body weight/day

Exposure method: Inhalation.  
 Potential health effects: Long term systemic effects.  
 DNEL : 8.7 mg of substance/m<sup>3</sup>

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 body weight/day

Exposure method: Dermal contact.  
 Potential health effects: Long term systemic effects.  
 DNEL : 8.3 mg/kg body weight/day

Exposure method: Inhalation.  
 Potential health effects: Short term systemic effects.  
 DNEL : 12.3 mg of substance/m<sup>3</sup>

Exposure method: Inhalation.

Potential health effects: DNEL :	Long term systemic effects. 12.3 mg of substance/m3
<b>Final use:</b>	<b>Consumers.</b>
Exposure method: Potential health effects: DNEL :	Ingestion. Short term systemic effects. 0.75 mg/kg body weight/day
Exposure method: Potential health effects: DNEL :	Ingestion. Long term systemic effects. 0.75 mg/kg body weight/day
Exposure method: Potential health effects: DNEL :	Dermal contact. Short term systemic effects. 3.6 mg/kg body weight/day
Exposure method: Potential health effects: DNEL :	Dermal contact. Long term systemic effects. 3.6 mg/kg body weight/day
Exposure method: Potential health effects: DNEL :	Inhalation. Short term systemic effects. 0.75 mg of substance/m3
Exposure method: Potential health effects: DNEL :	Inhalation. Long term systemic effects. 0.75 mg of substance/m3

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

TITANIUM DIOXIDE (IN THE FORM OF A POWDER CONTAINING NOT 1 % OR MORE PARTICLES OF A DIAMETER &lt;= 10 µM) (CAS: 13463-67-7)

Environmental compartment: PNEC :	Soil. 100 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.184 mg/l
Environmental compartment: PNEC :	Sea water. 0.0184 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.61 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 1000 mg/kg
Environmental compartment: PNEC :	Marine sediment. 100 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 100 mg/l

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

Environmental compartment: PNEC :	Soil. 0.237 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.003 mg/l
Environmental compartment: PNEC :	Sea water. 0.0003 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.0254 mg/l

Environmental compartment: PNEC :	Fresh water sediment. 0.294 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.0294 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)	
Environmental compartment: PNEC :	Soil. 0.065 mg/kg
Environmental compartment: PNEC :	Fresh water. 6 µg/l
Environmental compartment: PNEC :	Sea water. 1 µg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.013 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.341 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.034 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 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 EN ISO 374-1.

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)

#### - 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/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

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

#### Physical state

Physical state :	Viscous liquid.
aspect :	gel coat

#### Colour

Color :	white
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#### Odour

Odour threshold :	Not stated.
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#### Melting point

Melting point/melting range :	Not relevant.
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#### Freezing point

Freezing point / Freezing range :	Not stated.
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#### Boiling point or initial boiling point and boiling range

Boiling point/boiling range :	Not relevant.
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#### Flammability

Flammability (solid, gas) :	Not stated.
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#### Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) :	Not stated.
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Explosive properties, upper explosivity limit (%) :	Not stated.
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#### Flash point

Flash Point Interval :	FP > 100°C.
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#### Auto-ignition temperature

Self-ignition temperature :	Not relevant.
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#### Decomposition temperature

Decomposition point/decomposition range :	Not relevant.
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#### pH

pH (aqueous solution) :	Not stated.
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pH :	Not relevant.
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#### Kinematic viscosity

Viscosity :	24 350 ± 4 850 mPa.s @ 25 °C
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#### Solubility

Water solubility :	Insoluble.
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Fat solubility :	Not stated.
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#### Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water :	Not stated.
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#### Vapour pressure

Vapour pressure (50°C) :	Not relevant.
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#### Density and/or relative density

Density :	1.40 ± 0.02 @ 20 °C
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#### Relative vapour density

Vapour density :	Not stated.
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### 9.2. Other information

Miscibility	Alcohols, aromatic hydrocarbons
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**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**Formation of explosible dust/air mixtures**

Characteristic of dust particles :	Not stated.
Maximum pressure generated by the explosion :	Not stated.
Deflagration index (Kst) :	Not stated.
Minimum ignition energy :	Not stated.
MEC/LEL:	Not stated.

**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 hazard classes as defined in Regulation (EC) No 1272/2008**

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between one and four hours.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

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.

Presumed human reproductive toxicant.

May damage fertility.

**11.1.1. Substances****Acute toxicity :**

METHYL TOLUENE-4-SULPHONATE (CAS: 80-48-8)

Oral route : LD50 = 341 mg/kg bodyweight/day  
Species : Rat (recommended by the CLP)

METHYL TOLUENESULPHONATE (CAS: 28804-47-9)

Oral route : LD50 = 341 mg/kg bodyweight/day  
Species : Rat

DIOXYDE DE SILICE AMORPHE (CAS: 67762-90-7)

Oral route : LD50 > 5000 mg/kg bodyweight/day  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2000 mg/kg bodyweight/day  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 = 0.139 mg/l

TITANIUM DIOXIDE (IN THE FORM OF A POWDER CONTAINING NOT 1 % OR MORE PARTICLES OF A DIAMETER <= 10 µM) (CAS: 13463-67-7)

Oral route : LD50 > 5000 mg/kg bodyweight/day  
Species : Rat

Inhalation route (Dusts/mist) : LC50 > 6.82 mg/l  
Species : Rat  
Duration of exposure : 4 h

QUARTZ (CAS: 14808-60-7)

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

Dermal route : LD50 > 2000 mg/kg bodyweight/day

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

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

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

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

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

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

#### Skin corrosion/skin irritation :

METHYL TOLUENE-4-SULPHONATE (CAS: 80-48-8)

Species : Rabbit (recommended by the CLP)  
Duration of exposure : 24 h

DIOXYDE DE SILICE AMORPHE (CAS: 67762-90-7)

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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

Species : Rabbit  
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

Conjunctival redness : Average score = 0  
Species : Rabbit

Conjunctival oedema : Average score = 0  
Species : Rabbit  
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

#### Respiratory or skin sensitisation :

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

Buehler Test : Sensitiser.  
Species : Guinea pig

#### Germ cell mutagenicity :

DIOXYDE DE SILICE AMORPHE (CAS: 67762-90-7)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.  
Species : E. coli WP2 uvrA

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

Mutagenesis (in vivo) :

Negative.  
Species : Mouse

Species : Bacteria

Ames test (in vitro) :

Positive.

**Carcinogenicity :**

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

Carcinogenicity Test :

Negative.  
No carcinogenic effect.  
Species : Mouse  
Other guideline**Reproductive toxicant :**

1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-, POLYMER WITH (CHLOROMETHYL)OXIRANE (CAS: 30499-70-8)

May damage fertility.

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

No toxic effect for reproduction

Study on development :

Species : Rabbit  
Other guideline**11.1.2. Mixture****Respiratory or skin sensitisation :**

Contains epoxy compounds. May cause an allergic reaction.

**11.2. Information on other hazards****Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 108-94-1 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 14808-60-7 : IARC Group 1 : The agent is carcinogenic to humans.

CAS 13463-67-7 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 14808-60-7 : IARC Group 1 : The agent is carcinogenic to humans.

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**

TITANIUM DIOXIDE (IN THE FORM OF A POWDER CONTAINING NOT 1 % OR MORE PARTICLES OF A DIAMETER &lt;= 10 µM) (CAS: 13463-67-7)

Fish toxicity :

LC50 = 1000 mg/l  
Species : Leuciscus idus  
Duration of exposure : 48 h

Crustacean toxicity :

EC50 = 1000 mg/l  
Duration of exposure : 48 h

Algae toxicity :

NOEC = 1 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 72 h

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

Fish toxicity :

LC50 = 1.3 mg/l  
Duration of exposure : 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 = 2.1 mg/l  
Species : Daphnia sp.  
Duration of exposure : 48 h  
OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

NOEC = 0.3 mg/l  
Species : Daphnia magna  
Duration of exposure : 21 jours  
OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity : ECr50 > 11 mg/l  
Duration of exposure : 72 h

METHYL TOLUENESULPHONATE (CAS: 28804-47-9)

Fish toxicity : LC50 >= 4.6 mg/l  
Species : Leuciscus idus  
Duration of exposure : 96 h

DIOXYDE DE SILICE AMORPHE (CAS: 67762-90-7)

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)

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

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

METHYL TOLUENESULPHONATE (CAS: 28804-47-9)

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

DIOXYDE DE SILICE AMORPHE (CAS: 67762-90-7)

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

TITANIUM DIOXIDE (IN THE FORM OF A POWDER CONTAINING NOT 1 % OR MORE PARTICLES OF A DIAMETER &lt;= 10 µM) (CAS: 13463-67-7)

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

Biodegradability : Non-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.

### 12.3. Bioaccumulative potential

#### 12.3.1. Substances

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL

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

Bioaccumulation : BCF = 150

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

Octanol/water partition coefficient : log K<sub>ow</sub> ≤ 3.78

Bioaccumulation : BCF < 100.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Endocrine disrupting properties

No data available.

### 12.7. Other adverse effects

No data available.

### German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 3 : Extremely 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, 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.

### Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

07 01 08 \* other still bottoms and reaction residues

## 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 2023 - IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).

### 14.1. UN number or ID number

3082

### 14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)

### 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
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

\*Not subject to this regulation if Q &lt;= 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A. S-F	274 335 969	E1	Category A	-

\*Not subject to this regulation if Q &lt;= 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	964	450 L	964	450 L	A97 A158 A197 A215	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1

\*Not subject to this regulation if Q &lt;= 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.

Marine pollutant (IMDG 3.1.2.9):(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)

**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****Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

**Container information:**

No data available.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

The mixture contains at least one restricted substance under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>. Please refer to Section 3 to identify the substance involved.

For professional users only.

**Explosives precursors :**

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

**Particular provisions :**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :**

WGK 3 : Extremely hazardous for water.

**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.
H311	Toxic in contact with skin.
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.
H341	Suspected of causing genetic defects .
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

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).

GHS05 : Corrosion

GHS07 : Exclamation mark

GHS08 : Health hazard

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.