

## Safety data sheet

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

#### 1.1 PRODUCT IDENTIFIER

Product name

EPOKOL 903ZMA

#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses

Epoxy grout - component A

Uses advised against

No information.

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier

MITOL, tovarna lepil, d.o.o., Sežana  
Partizanska c. 78  
6210 Sežana, Slovenia  
+386 5 73 12 300 (8:00-16:00)  
lilijana.kocjan@mitol.si

#### 1.4 EMERGENCY TELEPHONE NUMBER

Emergency

112

Supplier

+386 5 73 12 300 (8:00-16:00)



<https://my.chemius.net/p/0V0scD/en/pd/en>

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 (CLP)

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.  
Muta. 2; H341 Suspected of causing genetic defects.  
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

#### 2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 [CLP]



**Signal word: WARNING**

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.  
P202 Do not handle until all safety precautions have been read and understood.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/eye protection/face protection.  
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.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with national regulation.

Contains:

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight  $\leq 700$ )  
bisphenol F  
2,3-epoxypropyl neodecanoate

#### 2.3 OTHER HAZARDS

PBT/vPvB

No information.

## Safety data sheet

### Endocrine disrupting properties

No information.

### Additional information

No information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCES

For mixtures see 3.2.

### 3.2 MIXTURES

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
<b>reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)</b>	25068-38-6 500-033-5 603-074-00-8	<20	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	Skin Irrit. 2; H315; / C ≥ 5% Eye Irrit. 2; H319; C ≥ 5%	/
<b>bisphenol F</b>	9003-36-5 500-006-8 -	<20	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	/	/
<b>bis(isopropyl)na phthalene</b>	38640-62-9 254-052-6 - 01-2119565150- 48	<10	Asp. Tox. 1; H304 Aquatic Chronic 1; H410; M = 1	/	/
<b>2,3-epoxypropyl neodecanoate</b>	26761-45-5 247-979-2 - 01-2119431597- 33	<10	Skin Sens. 1; H317 Muta. 2; H341 Aquatic Chronic 2; H411	/	/

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms occur, seek medical advice.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. If symptoms occur, seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation does not stop, seek professional medical treatment!

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Drink plenty of water in small sips. Consult a physician. Show the physician the safety data sheet or label.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

#### Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### Following skin contact

## Safety data sheet

Itching, redness, pain. May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

### Following eye contact

Redness, tearing, pain.

### Following ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

## 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

#### Hazardous combustion products

In case of heating harmful vapours/gases can be generated. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>). In the event of fire the following is released: nitrogen oxides (NO<sub>x</sub>).

### 5.3 ADVICE FOR FIREFIGHTERS

#### Protective actions

Product is not flammable. In case of fire or heating do not breathe fumes/vapours.

#### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system. Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

#### For non-emergency personnel

#### Protective equipment

Use personal protective equipment (Section 8).

#### Precautionary measures

Ensure adequate ventilation.

#### Emergency procedures

Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist.

#### For emergency responders

No action shall be taken involving any personal risk or without suitable training.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

#### For containment

No information.

#### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Clean contaminated area with water and detergent.

#### OTHER INFORMATION

No information.

### 6.4 REFERENCE TO OTHER SECTIONS

See also sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING



## Safety data sheet

### Protective measures

#### Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges.

#### Measures to prevent aerosol and dust generation

No information.

#### Measures to protect the environment

No information.

#### Other measures

No information.

#### Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Storage temperature: +5 - 25 ° C.

#### Packaging materials

No information.

#### Requirements for storage rooms and vessels

No information.

#### Storage class

No information.

#### Further information on storage conditions

No information.

### 7.3 SPECIFIC END USE(S)

#### Recommendations

No information.

#### Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

#### Occupational Exposure limit values

No information.

#### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

#### DNEL/DMEL values

##### For product

No information.

##### For components

Name	Type	Exposure route	exp. frequency	Remark	value
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	Worker	dermal	short term systemic effects	/	8.3 mg/kg

## Safety data sheet

Name	Type	Exposure route	exp. frequency	Remark	value
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Worker	inhalation	short term systemic effects	/	12.3 mg/m <sup>3</sup>
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Worker	dermal	long term systemic effects	repeated	8.3 mg/kg
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Worker	inhalation	long term systemic effects	repeated	12.3 mg/m <sup>3</sup>
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Consumer	dermal	short term systemic effects	/	3.6 mg/kg
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Consumer	inhalation	short term systemic effects	/	0.75 mg/m <sup>3</sup>
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Consumer	oral	short term systemic effects	/	0.75 mg/kg
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Consumer	dermal	long term systemic effects	repeated	3.6 mg/kg

## Safety data sheet

Name	Type	Exposure route	exp. frequency	Remark	value
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Consumer	inhalation	long term systemic effects	repeated	0.75 mg/m <sup>3</sup>
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Consumer	oral	long term systemic effects	repeated	0.75 mg/kg

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	fresh water	/	0.006 mg/L
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	marine water	/	0.0006 mg/L
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	fresh water sediment	/	0.0005 mg/L
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	marine water sediment	/	0.00627 mg/kg
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	water treatment plant	/	10 mg/L
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	soil	/	0.0478 mg/kg

### 8.2 EXPOSURE CONTROLS

Appropriate engineering control

# Safety data sheet

## Substance/mixture related measures to prevent exposure during identified uses

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Do not eat, drink or smoke while working.

## Structural measures to prevent exposure

No information.

## Organisational measures to prevent exposure

No information.

## Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

## Personal protective equipment

### Eye and face protection

Safety glasses with side protection (EN 166).

### Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

## Appropriate materials

### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

### Thermal hazards

No information.

## Environmental exposure controls

## Substance/mixture related measures to prevent exposure

No information.

## Instruction measures to prevent exposure

No information.

## Organisational measures to prevent exposure

No information.

## Technical measures to prevent exposure

No information.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state

liquid

#### Colour

black

#### Odour

characteristic

#### Important health, safety and environmental information

<b>Odour threshold</b>	No information.
<b>Melting point/Freezing point</b>	No information.
<b>Boiling point or initial boiling point and boiling range</b>	> 200 °C
<b>Flammability</b>	No information.
<b>Lower and upper explosion limit</b>	No information.
<b>Flash point</b>	> 150 °C
<b>Auto-ignition temperature</b>	No information.
<b>Decomposition temperature</b>	> 200 °C
<b>pH</b>	No information.
<b>Viscosity</b>	Dynamic: 4000 — 9000 mPas at 20 °C

## Safety data sheet

<b>Solubility</b>	Water: Insoluble Organic solvent: Soluble
<b>Partition coefficient</b>	No information.
<b>Vapour pressure</b>	< 0.001 hPa at 20 °C
<b>Density and/or relative density</b>	Density: 1.5 — 1.6 g/cm <sup>3</sup> at 23 °C (IKM 4/24)
<b>Relative vapour density</b>	No information.
<b>Particle characteristics</b>	No information.

### 9.2 OTHER INFORMATION

<b>Explosive properties</b>	Product is not self igniting.
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Stable under recommended transport or storage conditions.

### 10.2 CHEMICAL STABILITY

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

### 10.4 CONDITIONS TO AVOID

No special precautions required. Consider the directions for use and storage.

### 10.5 INCOMPATIBLE MATERIALS

Strong oxidising agents.  
Acids. Bases.  
Amines.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide.  
Nitrogen oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	oral	LD <sub>50</sub>	rat	/	> 2000 mg/kg /	/	/



## Safety data sheet

Name	Exposure route	Type	Species	Time	value	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)	dermal	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg	/	/
bisphenol F	dermal	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg	/	/
bisphenol F	oral	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
2,3-epoxypropyl neodecanoate	oral	LD <sub>50</sub>	rat	/	> 9600 mg/kg	/	/
2,3-epoxypropyl neodecanoate	inhalation	LC <sub>50</sub>	/	/	> 5 mg/l	/	/
2,3-epoxypropyl neodecanoate	dermal	LD <sub>50</sub>	rat	/	3800 mg/kg	/	/

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)	/	/	Irritating.	/	/
2,3-epoxypropyl neodecanoate	/	/	Non-irritant.	/	/

Additional information

Causes skin and eye irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
2,3-epoxypropyl neodecanoate	/	/	/	Mild irritating.	/	/

(d) Respiratory or skin sensitisation

For components

## Safety data sheet

Name	Exposure route	Species	Time	result	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	dermal	/	/	May cause sensitisation by skin contact.	/	/
2,3-epoxypropyl neodecanoate	dermal	/	/	May cause sensitisation.	/	/

### Additional information

May cause an allergic skin reaction.

### (e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	in-vivo mutagenicity	/	/	Negative.	/	/
2,3-epoxypropyl neodecanoate	/	/	/	Suspected of causing genetic defects.	/	/

### (f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	oral	NOAEL	rat	/	15 mg/kg/day	/	/	digestive: cecum

## Safety data sheet

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	dermal	NOEL	/	/	1 mg/kg/day	/	/	liver
2,3-epoxypropyl neodecanoate	/	/	/	/	/	Substance is not classified as carcinogenic.	/	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	Effects on fertility	NOAEL	rat	/	750 mg/kg/day	/	/	oral
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	Developmental toxicity	NOAEL	/	/	300 mg/kg/day	/	/	dermal

## Safety data sheet

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	Developmental toxicity	NOAEL	/	/	180 mg/kg/day	/	/	oral
2,3-epoxypropyl neodecanoate	/	/	/	/	/	The chemical is not classified as toxic for reproduction.	/	/

### Summary of evaluation of the CMR properties

Suspected of causing genetic defects.

### (h) STOT-single exposure

No information.

### (i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure organ	value	result	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	dermal	NOAEL	/	/	sub-chronic	skin	100 mg/kg bw/day	/	/

### Additional information

Not classified for subchronic toxicity.

### (j) Aspiration hazard

No information.

### Symptoms related to the physical, chemical and toxicological characteristics

No information.

### Interactive effects

No information.

## 11.2 INFORMATION ON OTHER HAZARDS

### Endocrine disrupting properties

## Safety data sheet

No information.

Other information

No information.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)	LC <sub>50</sub> /EC <sub>50</sub> /IC <sub>50</sub>	1 - 10 mg/L	/	Aquatic organisms	/	/	/
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)	LC <sub>50</sub>	2 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700)	EC <sub>50</sub>	1.8 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/

## Safety data sheet

Name	Type	value	Exposure time	Species	organism	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	ErC <sub>50</sub>	11 mg/L	72 h	algae	<i>Scenedesmus capricornutum</i>	/	/
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	IC <sub>50</sub>	42.6 mg/L	18 h	bacteria	/	/	/
bisphenol F	LC <sub>50</sub> /EC <sub>50</sub> /IC <sub>50</sub>	1 - 10 mg/L	/	Aquatic organisms	/	/	/
2,3-epoxypropyl neodecanoate	EC <sub>50</sub>	3.5 mg/L	48 h	daphnia	/	/	/
2,3-epoxypropyl neodecanoate	LC <sub>50</sub>	1 - 10 mg/L	/	algae	/	/	/

Chronic (long-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	NOEC	0.3 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/

### 12.2 PERSISTENCE AND DEGRADABILITY

Abiotic degradation, physical- and photo-chemical elimination

No information.

## Safety data sheet

### Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	aerobic	12 %	/	not readily biodegradable	OECD 302 B	/

### Additional information

Contains non readily biodegradable component(s).

### 12.3 BIOACCUMULATIVE POTENTIAL

#### Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Octanol-water (log Pow)	3.242	25	/	/	/

#### Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	organism	/	1.8 - 4.4	/	/	/	/

### Additional information

Danger of bioaccumulation.

### 12.4 MOBILITY IN SOIL

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

For components

## Safety data sheet

Name	Type	Criterion	value	Evaluation	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Soil	/	500 - 2000	/	/	Koc
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq 700$ )	Soil	Henry constant (H)	4.93E-5 Pa.m <sup>3</sup> / mol	/	/	25 °C

### 12.5 RESULTS OF PBT AND VPVB ASSESSMENT

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6 ENDOCRINE DISRUPTING PROPERTIES

No information.

### 12.7 OTHER ADVERSE EFFECTS

The product contains no ingredients with ozone depletion potential.

### 12.8 ADDITIONAL INFORMATION

#### For product

Toxic to aquatic life with long lasting effects. Do not allow to reach ground water, water courses or sewage system. It will sediment in water systems.

#### For components

#### **2,3-epoxypropyl neodecanoate**

There is a risk of bioaccumulation. This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

#### Product / Packaging disposal

#### Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Add appropriate amount B component to component A and mix well. The reaction is exothermic. Leave at least 1 day - mixture should become hard.

#### Waste codes / waste designations according to LoW

08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous substances  
08 04 10 - waste adhesives and sealants other than those mentioned in 080409

#### Packaging

Deliver completely emptied containers to approved waste disposal authorities.

#### Waste codes / waste designations according to LoW

15 01 - packaging (including separately collected municipal packaging waste)

#### Waste treatment-relevant information

No information.

#### Sewage disposal-relevant information

No information.









#### Other disposal recommendations

No information.

## SECTION 14: TRANSPORT INFORMATION



## Safety data sheet

ADR/RID	IMDG	IATA	ADN
<b>14.1 UN number or ID number</b>			
UN 3082	UN 3082	UN 3082	UN 3082
<b>14.2 UN proper shipping name</b>			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol F, bis(isopropyl)naphthalene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol F, bis(isopropyl)naphthalene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol F, bis(isopropyl)naphthalene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol F, bis(isopropyl)naphthalene)
<b>14.3 Transport hazard class(es)</b>			
9	9	9	9
 	 	 	 
<b>14.4 Packing group</b>			
III	III	III	III
<b>14.5 Environmental hazards</b>			
YES	Marine pollutant	YES	YES
<b>14.6 Special precautions for user</b>			
Limited quantities 5 L Special provisions 274, 335, 375, 601 Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Transport category 3 Tunnel restriction code (-)	Limited quantities 5 L EmS F-A, S-F Flash point 150 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y964 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 30 kg G Packing Instructions (Pkg Inst) 964 Maximum Net Quantity/Package (Max Net Qty/Pkg) 450 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 964 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg) 450 L Special provisions A97, A158, A197 Excepted quantities E1 ERG code 9L	Limited quantities 5 L

## Safety data sheet

ADR/RID	IMDG	IATA	ADN
<b>14.7 Maritime transport in bulk according to IMO instruments</b>			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

### SECTION 15: REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

#### 15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: OTHER INFORMATION

Indication of changes

2.2 Label elements 8.2 Exposure controls 9.1 Information on basic physical and chemical properties

Key literature references and sources for data

No information.

Abbreviations and acronyms

## Safety data sheet

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**ATE - Acute Toxicity Estimate**

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

**List of relevant H phrases**

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H341 Suspected of causing genetic defects.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.