## SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

## MFL-2480 2K METAL FILLER COMP A

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

#### 1.1. Product identifier

**Product name** : MFL-2480 2K METAL FILLER COMP A

**Registration number REACH** : Not applicable (mixture)

Product type REACH : Mixture

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

#### 1.2.1 Relevant identified uses

Adhesive

### 1.2.2 Uses advised against

No uses advised against known

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

## Supplier of the safety data sheet

Novatio\*

Industrielaan 5B

B-2250 Olen

**2** +32 14 25 76 40

**₼** +32 14 22 02 66

info@novatio.be

\*NOVATIO is a registered trademark of Novatech International N.V.

#### Manufacturer of the product

Novatech International N.V.

Industrielaan 5B B-2250 Olen

**2** +32 14 85 97 37 **4** +32 14 85 97 38

info@novatech.be

## 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Classifica as darige	side of the control of the criteria of hegalation (Le) No 1272/2000		
Class	Category	Hazard statements	
Skin Sens.	category 1	H317: May cause an allergic skin reaction.	
Skin Irrit.	category 2	H315: Causes skin irritation.	
Eye Irrit.	category 2	H319: Causes serious eye irritation.	
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.	

#### 2.2. Label elements





Contains: bis-[4-(2,3-epoxypropoxy)phenyl]propane.

Signal word Warning

**H-statements** H317

May cause an allergic skin reaction.

Causes skin irritation. H315

H319 Causes serious eye irritation.

Toxic to aquatic life with long lasting effects. H411

P-statements

Wear protective gloves, protective clothing and eye protection/face protection. P280

P264 Wash hands thoroughly after handling.

IF ON SKIN: Wash with plenty of water and soap. P302 + P352

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
bis-[4-(2,3-epoxypropoxy)phenyl]propane 01-2119456619-26	1675-54-3 216-823-5	50% <c<75%< td=""><td>Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411 Eye Irrit. 2; H319: C≥5%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: C≥5%, (CLP Annex VI (ATP 0))</td><td>(1)(6)(10)</td><td>Constituent</td><td></td></c<75%<>	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411 Eye Irrit. 2; H319: C≥5%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: C≥5%, (CLP Annex VI (ATP 0))	(1)(6)(10)	Constituent	
Phenol, styrenated 01-2119980970-27	61788-44-1 262-975-0	10% <c<25%< td=""><td>Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>Constituent</td><td></td></c<25%<>	Aquatic Chronic 2; H411	(1)(10)	Constituent	
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane 01-2119513212-58	2530-83-8 219-784-2	1% <c<2.5%< td=""><td>Eye Dam. 1; H318 Aquatic Chronic 3; H412</td><td>(1)(10)</td><td>Constituent</td><td></td></c<2.5%<>	Eye Dam. 1; H318 Aquatic Chronic 3; H412	(1)(10)	Constituent	

<sup>(1)</sup> For H- and EUH-statements in full: see section 16

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

#### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

## After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

#### 4.2.1 Acute symptoms

#### After inhalation:

No effects known.

#### After skin contact:

Tingling/irritation of the skin.

#### After eye contact:

Irritation of the eye tissue. Redness of the eye tissue.

## After ingestion:

No effects known.

## 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

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<sup>(6)</sup> Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

<sup>(10)</sup> Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

#### 5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment for surrounding fires.

#### 5.1.2 Unsuitable extinguishing media:

Not applicable.

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

Upon combustion: CO and CO2 are formed.

#### 5.3. Advice for firefighters

## 5.3.1 Instructions:

Use water moderately and if possible collect or contain it. Take account of environmentally hazardous firefighting water.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

#### 6.2. Environmental precautions

Contain released product. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Solid spill: cover with absorbent material. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

See section 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Meet the legal requirements. Store in a dry area. Keep only in the original container. Keep container tightly closed.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

## 7.2.4 Non suitable packaging material:

No data available

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

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 Occupational exposure

#### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

## Germany

Bisphenol-A-diglycidylether vgl. Abschn. IIb

## b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

Product name	Test	Number
Diglycidyl Ether of Bisphenol A	OSHA	1018

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

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#### 8.1.4 Threshold values

DNEL/DMEL - Workers

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	4.93 mg/m³	
	Long-term systemic effects dermal	0.75 mg/kg bw/day	

Phenol, styrenated

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	7.4 mg/m³	
	Long-term systemic effects dermal	2.1 mg/kg bw/day	

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	70.5 mg/m³	
	Long-term systemic effects dermal	10 mg/kg bw/day	

DNEL/DMEL - General population bis-[4-(2,3-epoxypropoxy)phenyl]propane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.87 mg/m³	
	Long-term systemic effects dermal	89.3 μg/kg bw/day	
	Long-term systemic effects oral	0.5 mg/kg bw/day	

Phenol, styrenated

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1.31 mg/m³	
	Long-term systemic effects dermal	0.75 mg/kg bw/day	
	Long-term systemic effects oral	0.75 mg/kg bw/day	

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	17.4 mg/m³	
	Long-term systemic effects dermal	5 mg/kg bw/day	
	Long-term systemic effects oral	5 mg/kg bw/day	

PNEC bis-[4-(2,3-epoxypropoxy)phenyl]propane

з 14 12,3 срохургорохуурпспупргорапс			
Compartments	Value	Remark	
Fresh water	0.006 mg/l		
Marine water	0.001 mg/l		
Fresh water (intermittent releases)	0.018 mg/l		
Marine water (intermittent releases)	0.002 mg/l		
STP	10 mg/l		
Fresh water sediment	0.341 mg/kg sediment dw		
Marine water sediment	0.034 mg/kg sediment dw		
Soil	0.065 mg/kg soil dw		
Oral	11 mg/kg food		

Phenol, styrenated

Compartments	value	кетагк	
Fresh water	4 μg/l		
Fresh water (intermittent releases)	46 μg/l		
Marine water	0.4 μg/l		
Marine water (intermittent releases)	4.6 μg/l		
STP	36.2 mg/l		
Fresh water sediment	0.248 mg/kg sediment dw		
Marine water sediment	24.8 μg/kg sediment dw		
Soil	47.3 μg/kg soil dw		
(0.0			

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Compartments	Value	Remark
Fresh water	0.45 mg/l	
Marine water	0.045 mg/l	
Fresh water (intermittent releases)	0.45 mg/l	
STP	8.2 mg/l	
Fresh water sediment	1.6 mg/kg sediment dw	
Marine water sediment	0.16 mg/kg sediment dw	
Soil	0.063 mg/kg soil dw	

## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

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The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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## 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Respiratory protection not required in normal conditions.

## b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
butyl rubber	> 480 minutes	0.5 mm	Class 6	
neoprene (chloroprene rubber)	> 480 minutes	0.5 mm	Class 6	
nitrile rubber	> 480 minutes	0.5 mm	Class 6	
PVC	> 480 minutes	0.5 mm	Class 6	

#### c) Eye protection:

Face shield (EN 166).

## d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

## 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical form	Paste
Colour	Grey
Odour	Characteristic odour
Odour threshold	No data available in the literature
Melting point	No data available in the literature
Boiling point	No data available in the literature
Flammability	Not classified as flammable
Explosion limits	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available in the literature
рН	No data available in the literature
Kinematic viscosity	No data available in the literature
Dynamic viscosity	119000 mPa.s
Solubility	Water ; insoluble
Log Kow	Not applicable (mixture)
Vapour pressure	No data available in the literature
Absolute density	1370 kg/m³
Relative density	1.37
Relative vapour density	Not applicable
Particle size	Not applicable

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

## 10.2. Chemical stability

 $Stable\ under\ normal\ conditions.$ 

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

## Precautionary measures

 ${\it Keep\ away\ from\ naked\ flames/heat}.$ 

## 10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases.

## 10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

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## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

#### Acute toxicity

#### MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 420	> 2000 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw		Rat (male / female)	Experimental value	
Inhalation (vapours)	LC0		0.000008 ppm	5 h	Rat (male)	Experimental value	

Phenol, styrenated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat (female)	Experimental value	
Skin	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male /	Experimental value	
					female)		
Inhalation						Data waiving	

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	8025 mg/kg		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	4250 mg/kg	24 h	Rabbit (male)	Experimental value	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	> 5.3 mg/l		Rat (male / female)	Experimental value	

## Conclusion

Not classified for acute toxicity

## Corrosion/irritation

### MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Classification is based on the relevant ingredients

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hrs; 7 days	Rabbit	Experimental value	Single exposure
Eye	Irritating; category 2					Annex VI	
Skin	Slightly irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Irritating; category 2					Annex VI	

Phenol, styrenated

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hours	Rabbit	'	Single treatment with rinsing
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Route of exposure	Result	Method	Exposure time	Time point	- •		Remark
						determination	
Eye	Serious eye damage	OECD 405	4 h	24; 48; 72 hours	Rabbit	l '	Single treatment with rinsing
Skin	Not irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

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#### Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

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## Respiratory or skin sensitisation

#### MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Classification is based on the relevant ingredients

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Dermal (on the ears)	Sensitizing	OECD 429		Mouse (female)	Experimental value	

#### Phenol, styrenated

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Guinea pig maximisation test			Guinea pig	Experimental value	
Skin	Not sensitizing	Patch test	24 h		Human (male / female)	Experimental value	

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		•	Guinea pig (female)	Experimental value	

## Conclusion

May cause an allergic skin reaction. Not classified as sensitizing for inhalation

## Specific target organ toxicity

#### MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value	Remark
							determination	
Oral (stomach tube)	NOAEL	OECD 408	50 mg/kg bw/day	No effect	14 weeks (7 days / week)	Rat (male / female)	Experimental value	
Dermal	NOAEL systemic effects	OECD 411	0, 0	No adverse systemic effects	13 weeks (3 times / week)	Mouse (male)	Experimental value	

## Phenol, styrenated

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value	Remark
							determination	
Oral (diet)	NOAEL	Subchronic	150 mg/kg	No effect	36 week(s)	Rat (male /	Experimental	
		toxicity test	bw/day			female)	value	
Oral (diet)	LOAEL	Subchronic	500 mg/kg	Liver; kidney	36 week(s)	Rat (male /	Experimental	
		toxicity test	bw/day	(weight gain)		female)	value	
Dermal							Data waiving	
Inhalation							Data waiving	
-(2 3-enoxynronoxy)ni	ronvIltrimet	hoxysilane			-	•	-	-

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value	Remark
							determination	
Oral (stomach tube)	NOAEL	OECD 408	≥ 1000 mg/kg bw/day	No effect	/ (- /	Rat (male / female)	Experimental value	
Inhalation (aerosol)		Equivalent to OECD 412	225 mg/m <sup>3</sup> air	l	(- ,	Rat (male / female)	Experimental value	

#### Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

## MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 472	Escherichia coli		Experimental value	
activation, negative					
without metabolic					
activation					

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Phenol	. stv	renated

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 476	Chinese hamster ovary		Experimental value	
activation, negative		(CHO)			
without metabolic					
activation					
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
activation, negative					
without metabolic					
activation					

## [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Result	Method	Test substrate	Effect	Value determination	Remark
Positive with metabolic activation, positive without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Positive with metabolic activation, positive without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	

#### Mutagenicity (in vivo)

#### MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach	OECD 488	4 weeks (daily)	Rat (male)	No effect	Experimental value	
tube))						
[2 /2 2 onovernouse)propul]+	rimothovycilano	•		•	-	

#### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach	OECD 488	28 day(s)	Rat (male)	No effect	Experimental value	
tube))						

#### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

## MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Dermal	NOEL	OECD 453	100 mg/kg bw/day	No carcinogenic effect	104 weeks (5 days / week)	Rat (female)	Experimental value	
Oral (stomach tube)	NOAEL	OECD 453	15 mg/kg bw/day - 100 mg/kg bw/day		104 week(s)	Rat (male / female)	Experimental value	

## [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

(Z,S CPON) PIC	poxy/propyrjeri	THE CHORY SHAFTE						
Route of	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
exposure								
Dermal	NOAEL	Carcinogenic	> 5 mg/kg	No carcinogenic		Mouse (male)	Experimental value	Lifetime
		toxicity study	bw/dav	effect				(3x/week)

## Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

## MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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bis-[4-(2,3-epoxypropoxy)phenyl]propane

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value	Remark
							determination	
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	180 mg/kg bw/day	13 days (gestation, daily)	Rabbit	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	60 mg/kg bw/day	13 days (gestation, daily)	Rabbit	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOEL	OECD 416	750 mg/kg bw/day	238 day(s)	Rat (male / female)	No effect	Experimental value	

Phenol, styrenated

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value	Remark
							determination	
Developmental toxicity	NOAEL	Developmenta	750 mg/kg		Rat	No effect	Experimental	I
(Oral (stomach tube))		I toxicity study	bw/day				value	ı
Maternal toxicity (Oral	LOAEL	Developmenta	750 mg/kg		Rat	Maternal	Experimental	
(stomach tube))		I toxicity study	bw/day			toxicity	value	
Effects on fertility (Oral	NOAEL	2 generation	100 mg/kg		Rat (male /	No effect	Read-across	
(diet))		study	bw/day		female)			

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value	Remark
							determination	
Developmental toxicity	NOAEL	Equivalent to	1500 mg/kg	10 days (gestation,	Rat	No effect	Experimental	
(Oral (stomach tube))		OECD 414	bw/day	daily)			value	
Maternal toxicity (Oral	NOAEL	Equivalent to	1500 mg/kg		Rat	No effect	Experimental	
(stomach tube))		OECD 414	bw/day				value	
Effects on fertility (Oral	NOAEL (P/F1)	OECD 415	≥ 1000		Rat (male /	No effect	Experimental	
(stomach tube))			mg/kg		female)		value	
			bw/day					

## Conclusion

Not classified for reprotoxic or developmental toxicity

#### **Aspiration hazard**

#### MFL-2480 2K METAL FILLER COMP A

Judgement is based on the relevant ingredients Not classified for aspiration toxicity

## **Toxicity other effects**

## MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

#### MFL-2480 2K METAL FILLER COMP A

Skin rash/inflammation.

#### 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

## 12.1. Toxicity

## MFL-2480 2K METAL FILLER COMP A

No (test)data on the mixture available Classification is based on the relevant ingredients

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bis-	[4-	(2,3-epoxypropoxy)phenyl]propa	ne
------	-----	--------------------------------	----

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	1.8 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	Equivalent to OECD 202	1.7 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50	EPA 660/3 - 75/009	> 11 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Growth rate
	NOEC	EPA 660/3 - 75/009	4.2 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	0.3 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms	IC50		> 100 mg/l	3 h	Activated sludge			Experimental value; Respiration

## Phenol, styrenated

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		5.6 mg/l	96 h	Pisces			Experimental value
Acute toxicity crustacea	EC50	OECD 202	4.6 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	NOEC		0.14 mg/l	72 h	Algae			Literature study
	EL50	Equivalent to OECD 201	20 mg/l	72 h	Chlorella vulgaris	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	NOEC	OECD 210	0.2 mg/l	21 day(s)	Danio rerio	Flow- through system	Fresh water	Experimental value; Lethal
Long-term toxicity aquatic crustacea	NOEC		0.2 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Nominal concentration

## [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EU Method C.1	55 mg/l	96 h	Cyprinus carpio	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	LC50	US EPA	324 mg/l	48 h	Simocephalus vetulus	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	ErC50	OECD 201	350 mg/l	96 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	130 mg/l	96 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	≥ 100 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Nominal concentration
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

## $\underline{\textbf{Conclusion}}$

Toxic to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Biodegradation water

Method	Value	Duration	Value determination	
OECD 301F	5 %; Oxygen consumption	28 day(s)	Experimental value	

## Phenol, styrenated

В	Biodegradation water						
	Method	Value	Duration	Value determination			
		0 % - 3 %	28 day(s)	Weight of evidence			

## [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Biodegradation water

Method	Value	Duration	Value determination
EU Method C.4-A	37 %	28 day(s)	Experimental value

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#### Conclusion

#### Water

Contains non readily biodegradable component(s)

#### 12.3. Bioaccumulative potential

#### MFL-2480 2K METAL FILLER COMP A

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane

#### BCE ficho

Parameter	Method	Value	Duration	Species	Value determination
BCF		31; Fresh weight			QSAR

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117			25 °C	Experimental value

#### Phenol, styrenated

## **BCF** fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	3246 l/kg; Fresh		Pisces	Weight of evidence
		weight			

#### Log Kow

Method	Remark	Value	Temperature	Value determination		
OECD 117		3.0	23.6 °C	Experimental value		

## [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

#### Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN		0.5	20 °C	QSAR

#### Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

bis-[4-(2,3-epoxypropoxy)phenyl]propane

## (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.7	QSAR

## Phenol, styrenated (log) Koc

U				
Parameter	Method	Value	Value determination	
log Koc	OECD 121	3.1	Experimental value	

## Conclusion

Contains component(s) with potential for mobility in the soil

Contains component(s) that adsorb(s) into the soil

## 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

## MFL-2480 2K METAL FILLER COMP A

## Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

## Groundwater

Groundwater pollutant

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane

#### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Groundwater

Groundwater pollutant

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#### Phenol, styrenated

#### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

#### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

#### **Greenhouse gases**

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

#### Groundwater

Groundwater pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

#### **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

## 13.1.3 Packaging/Container

14.1. UN number or ID number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Classification code

Hazard identification number

Proper shipping name

UN number

Class

#### **European Union**

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

#### Road (ADR)

1. UN number or ID number	lana.		
UN number	3082		
2. UN proper shipping name			
Proper shipping name	environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3		
	epoxypropoxy)phenyl]propane; Phenol, styrenated)		
3. Transport hazard class(es)			
Hazard identification number	90		
Class	9		
Classification code	M6		
4. Packing group			
Packing group			
Labels	9		
5. Environmental hazards			
Environmentally hazardous substance mark	yes		
6. Special precautions for user			
Special provisions	274		
Special provisions	335		
Special provisions	375		
Special provisions	601		
Limited quantities	Combination packagings: not more than 5 liters per inner packaging f		
·	liquids. A package shall not weigh more than 30 kg (gross mass).		

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environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-

epoxypropoxy)phenyl]propane; Phenol, styrenated)

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3082

90

M6

Packing group	
Labels	9
5. Environmental hazards	
Environmentally hazardous substance mark	yes
6. Special precautions for user	
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg (gross mass).
d waterways (ADN)	
1. UN number or ID number	
UN number/ID number	3082
2. UN proper shipping name	
Proper shipping name	environmentally hazardous substance, liquid, n.o.s. (bis-[4-{2,3-epoxypropoxy)phenyl]propane; Phenol, styrenated)
3. Transport hazard class(es)	
Class	9
Classification code	M6
4. Packing group	•
Packing group	III
Labels	9
	ļ <sup>g</sup>
5. Environmental hazards	l
Environmentally hazardous substance mark	yes
6. Special precautions for user	1074
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg (gross mass).
1. UN number or ID number UN number	3082
2. UN proper shipping name	
Proper shipping name	environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxypropoxy)phenyl]propane; Phenol, styrenated)
3. Transport hazard class(es)	1.
Class	9
4. Packing group	
Packing group	III
Labels	9
	<del></del>
5. Environmental hazards	
5. Environmental hazards  Marine pollutant	P
Marine pollutant	
Marine pollutant Environmentally hazardous substance mark	P yes
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user	yes
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions	yes 274
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions	yes 274 335
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities 7. Maritime transport in bulk according to IMO instruments	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities 7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for
Marine pollutant Environmentally hazardous substance mark  6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities  7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78  CAO-TI/IATA-DGR)	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).
Marine pollutant Environmentally hazardous substance mark  6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities  7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78  CAO-TI/IATA-DGR)  1. UN number or ID number	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data
Marine pollutant Environmentally hazardous substance mark  6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities  7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78  CAO-TI/IATA-DGR)  1. UN number or ID number UN number/ID number	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).
Marine pollutant Environmentally hazardous substance mark  6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities  7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78  CAO-TI/IATA-DGR)  1. UN number or ID number	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082  environmentally hazardous substance, liquid, n.o.s. (bis-[4-{2,3-}]
Marine pollutant Environmentally hazardous substance mark  6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities  7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78  CAO-TI/IATA-DGR)  1. UN number or ID number UN number/ID number 2. UN proper shipping name Proper shipping name	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities 7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1. UN number or ID number UN number/ID number 2. UN proper shipping name Proper shipping name Proper shipping name 3. Transport hazard class(es)	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082  environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxypropoxy)phenyl]propane; Phenol, styrenated)
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities 7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1. UN number or ID number UN number/ID number 2. UN proper shipping name Proper shipping name Proper shipping name 3. Transport hazard class(es) Class	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082  environmentally hazardous substance, liquid, n.o.s. (bis-[4-{2,3-}]
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities 7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1. UN number or ID number UN number/ID number 2. UN proper shipping name Proper shipping name Proper shipping name 3. Transport hazard class(es) Class 4. Packing group	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082  environmentally hazardous substance, liquid, n.o.s. (bis-[4-{2,3-epoxypropoxy)phenyl]propane; Phenol, styrenated)
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities 7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1. UN number or ID number UN number/ID number 2. UN proper shipping name Proper shipping name Proper shipping name 3. Transport hazard class(es) Class 4. Packing group Packing group	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082  environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxypropoxy)phenyl]propane; Phenol, styrenated)  9
Marine pollutant Environmentally hazardous substance mark  6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities  7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78  CAO-TI/IATA-DGR)  1. UN number or ID number UN number/ID number 2. UN proper shipping name Proper shipping name  Proper shipping name  3. Transport hazard class(es) Class 4. Packing group Packing group Labels	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082  environmentally hazardous substance, liquid, n.o.s. (bis-[4-{2,3-epoxypropoxy)phenyl]propane; Phenol, styrenated)
Marine pollutant Environmentally hazardous substance mark 6. Special precautions for user Special provisions Special provisions Special provisions Limited quantities 7. Maritime transport in bulk according to IMO instruments Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1. UN number or ID number UN number/ID number 2. UN proper shipping name Proper shipping name Proper shipping name 3. Transport hazard class(es) Class 4. Packing group Packing group	yes  274  335  969  Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg (gross mass).  Not applicable, based on available data  3082  environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxypropoxy)phenyl]propane; Phenol, styrenated)  9

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Special provisions	A158			
Special provisions	A197			
Special provisions	A215			
Special provisions	A97			
Passenger and cargo transport				
Limited quantities: maximum net quantity per packaging	30 kg G			

## SECTION 15: Regulatory information

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

VOC content Directive 2010/75/EU

VOC content	Remark	
0 %		

## Directive 2012/18/EU (Seveso III)

Threshold values under normal circumstances

		Top tier (tonnes)		For this substance or mixture the summation rule has to be applied for:
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500	None	Eco-toxicity

#### **REACH Candidate list**

Does not contain component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

#### REACH Annex XIV - Authorisation

Does not contain component(s) included in Annex XIV of Regulation (EC) No 1907/2006: list of substances subject to authorisation

#### **REACH Annex XVII - Restriction**

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

bis-[4-(2,3-epoxypropoxy)phenyl]propane     Phenol, styrenated     (3-(2,3-epoxypropoxy) propyl]trimethoxysilane	Designation of the substance, of the group of substances or of the mixture Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in:  — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,  — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects,  2. Articles not complying with paragraph 1 shall not be placed on the market.  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:  — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304,  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).  5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:  a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage";
· bis-[4-(2,3-epoxypropoxy)phenyl]propane	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:  — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following:	b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.  Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081
	due to effects only following exposure by inhalation  — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation  — skin sensitiser category 1, 1A or 1B  — skin corrosive category 1, 1A, 1B or 1C or	

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skin irritant category 2

serious eye damage category 1 or eye

irritant category 2

(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European

Parliament and of the Council

(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.

The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of

#### **National legislation Belgium**

MFL-2480 2K METAL FILLER COMP A

No data available

## **National legislation The Netherlands**

MFL-2480 2K METAL FILLER COMP

Waterbezwaarlijkheid A (2); Algemene Beoordelingsmethodiek (ABM)

5.2.5

this entry.

#### **National legislation France**

MFL-2480 2K METAL FILLER COMP A

No data available

#### **National legislation Germany**

MFL-2480 2K METAL FILLER COMP A

WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017			
bis-[4-(2,3-epoxypropoxy)phenyl]propane				
TA-Luft	5.2.5			
Phenol, styrenated				
TA-Luft	5.2.5/I			
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane				

## **National legislation Austria**

MFL-2480 2K METAL FILLER COMP A

No data available

## National legislation United Kingdom

MFL-2480 2K METAL FILLER COMP A

No data available

#### **National legislation Ireland**

MFL-2480 2K METAL FILLER COMP A

No data available

## Other relevant data

MFL-2480 2K METAL FILLER COMP A

No data available

bis-[4-(2,3-epoxypropoxy)phenyl]propane

IARC - classification 3; Bisphenol a diglycidyl ether

## 15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

## SECTION 16: Other information

#### Full text of any H- and EUH-statements referred to under section 3:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

(\*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

ATE Acute Toxicity Estimate
BCF Bioconcentration Factor
BEI Biological Exposure Indices

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

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DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC10 Effect Concentration 10 %
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

GLP Good Laboratory Practice
LC0 Lethal Concentration 0 %
LC50 Lethal Concentration 50 %
LD50 Lethal Dose 50 %

LOAEC/LOAEL Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level

NOAEC/NOAEL No Observed Adverse Effect Concentration/No Observed Adverse Effect Level

NOEC/NOEL No Observed Effect Concentration/No Observed Effect Level
OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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