

according to Regulation (EC) No 1907/2006

## Ceramic-Polymer SF/LF-SW Part A

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

# 1.1. Product identifier

Ceramic-Polymer SF/LF-SW Part A

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

#### Use of the substance/mixture

Coatings and paints, fillers, putties, thinners

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

Company name:	Ceramic Polymer GmbH	
Street:	Daimlerring 9	
Place:	DE-32289 Rödinghausen	
Telephone:	+49(0) 52 23 / 9 62 76-0	Telefax: +49(0) 52 23 / 9 62 76-17
e-mail:	info@ceramic-polymer.de	
Internet:	www.ceramic-polymer.de	
Responsible Department:	info@ceramic-polymer.de	
1.4. Emergency telephone	+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)	
numbor		

#### number:

#### SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Warning

#### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

### Hazard components for labelling

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 1,6-bis(2,3-epoxypropoxy)hexane

Signal word:

Pictograms:



#### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

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P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P273	Avoid release to the environment.	
P270	Do not eat, drink or smoke when using this product.	
P403+P235	Store in a well-ventilated place. Keep cool.	

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

## Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulat	ion (EC) No. 1272/2008 [CLP]			
25068-38-6	4,4'-Isopropylidenediphenol, oligon	neric reaction products with 1-chloro-	2,3-epoxypropane	10 - < 25 %	
	500-033-5	603-074-00-8	01-2119456619-26		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411				
9003-36-5	Formaldehyde, oligomeric reaction	pane and phenol	10 - < 25 %		
	500-006-8		01-2119454392-40		
	Skin Irrit. 2, Skin Sens. 1, Aquatic				
16096-31-4	1,6-bis(2,3-epoxypropoxy)hexane			1-<5 %	
	240-260-4		01-2119463471-41		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	17 H412			

Full text of H and EUH statements: see section 16.

### **Further Information**

No information available.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately. Do not wash with: Solvents/Thinner

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.



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Do NOT induce vomiting.

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

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

First Aid, decontamination, treatment of symptoms.

After contact with skin, wash immediately with plenty of Lutrol.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet

#### Unsuitable extinguishing media

High power water jet

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

Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

See protective measures under point 7 and 8. Provide adequate ventilation. Personal protection equipment: see section 8 Remove persons to safety.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Adverse environmental effects

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

See protective measures under point 7 and 8. Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

#### Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

# Advice on storage compatibility

Keep away from:

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Food and feedingstuffs Oxidising agent

### Further information on storage conditions

Keep away from: Frost Heat Humidity

## 7.3. Specific end use(s)

No information available.

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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# **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric	reaction products with 1-chloro-2,3-ep	oxypropane	
Worker DNEL,	, long-term	inhalation	systemic	12,25 mg/m³
Worker DNEL,	, acute	inhalation	systemic	12,25 mg/m³
Worker DNEL,	, long-term	dermal	systemic	8,33 mg/kg bw/day
Worker DNEL,	acute	dermal	systemic	8,33 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	3,571 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	3,571 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,75 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	0,75 mg/kg bw/day
,				
9003-36-5	Formaldehyde, oligomeric reaction prod	ucts with 1-chloro-2,3-epoxypropane a	and phenol	
Worker DNEL,	, long-term	inhalation	systemic	29,39 mg/m³
Worker DNEL,	long-term	dermal	systemic	104,15 mg/kg bw/day
Worker DNEL,	, acute	dermal	local	0,0083 mg/cm <sup>2</sup>
Consumer DN	EL, long-term	inhalation	systemic	8,7 mg/m³
Consumer DN	EL, long-term	dermal	systemic	62,5 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	6,25 mg/kg bw/day
16096-31-4	1,6-bis(2,3-epoxypropoxy)hexane			
Consumer DN	EL, acute	inhalation	systemic	2,9 mg/m³
Consumer DN	EL, long-term	inhalation	local	0,27 mg/m³
Consumer DN	EL, long-term	dermal	systemic	1,7 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	1,7 mg/kg bw/day
Consumer DN	EL, long-term	dermal	local	0,0136 mg/cm <sup>2</sup>
Consumer DN	EL, acute	dermal	local	0,0136 mg/cm <sup>2</sup>
Consumer DN	EL, long-term	oral	systemic	0,83 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	0,83 mg/kg



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#### **PNEC** values

CAS No	Substance	
Environment	al compartment	Value
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	9
Freshwater		0,006 mg/l
Marine water	r	0,001 mg/l
Freshwater s	sediment	0,996 mg/kg
Marine sediment		0,1 mg/kg
Secondary poisoning		11 mg/kg
Soil		0,196 mg/kg
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	
Freshwater		0,003 mg/l
Freshwater sediment		0,294 mg/kg
Marine sedin	Marine sediment	
Soil		0,237 mg/kg

#### 8.2. Exposure controls

### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.

## Eye/face protection

Suitable eye protection: Eye glasses with side protection goggles

#### Hand protection

Tested protective gloves must be worn: DIN EN 374

NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Thickness of the glove material >= 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

mentioned above together with the supplier of these gloves.

Wearing time with occasional contact (splashes): max. 480 min. (NBR (Nitrile rubber))

Wearing time with permanent contact 240 - 480 min (NBR (Nitrile rubber))

Observe the wear time limits as specified by the manufacturer.

Wear cotton undermitten if possible.

# Skin protection

Protective clothing

# **Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Combination filtering device (EN 14387) A-P3

Self-contained respirator (breathing apparatus) (DIN EN 133)

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# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	various
Odour:	characteristic

	pH-Value:	not determined	
	Changes in the physical state		
	Melting point:	not determined	
	Initial boiling point and boiling range:	not determined	
	Sublimation point:	not determined	
	Softening point:	not determined	
	Pour point:	not determined	
	Flash point:	>95 °C	
	Flammability		
	Solid:	not determined	
	Gas:	not determined	
	Explosive properties		
	No information available.		
	Lower explosion limits:	not determined	
	Upper explosion limits:	not determined	
	Ignition temperature:	not determined	
	Auto-ignition temperature		
	Solid:	not determined	
	Gas:	not determined	
	Decomposition temperature:	not determined	
	Oxidizing properties No information available.		
	Vapour pressure:	not determined	
	Density (at 23 °C):	~1,8 g/cm <sup>3</sup>	
	Water solubility:	not determined	
	Solubility in other solvents No information available.		
	Partition coefficient:	not determined	
	Viscosity / dynamic: (at 23 °C)	~10000 mPa·s	
	Vapour density:	not determined	
	Evaporation rate:	not determined	
<u>9</u>	.2. Other information		
	No information available		

No information available.

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.



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#### 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

# 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Oxidising agent

# 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### 10.5. Incompatible materials

Acid, Oxidising agent

#### 10.6. Hazardous decomposition products

No information available.

#### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose		Species	Source
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol				
	oral	LD50	> 5000 mg/kg	Rat	Study report (1988)
	dermal	LD50	> 2000 mg/kg	Rat	Study report (1988)

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

# Sensitising effects

May cause an allergic skin reaction. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; 1,6-bis(2,3-epoxypropoxy)hexane)

# Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### **SECTION 12: Ecological information**

# 12.1. Toxicity



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol						
	Acute fish toxicity	LC50	> 1000 mg/l	96 h	Oncorhynchus mykiss	Study report (1998)	
	Acute algae toxicity	ErC50	> 1,8 mg/l		Pseudokirchneriella subcapitata	Study report (1993)	
	Acute crustacea toxicity	EC50	> 1000 mg/l	48 h	Daphnia magna	Study report (1998)	
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	Study report (1984)	

### 12.2. Persistence and degradability

No information available.

# 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2,7
		•

#### BCF

CAS No	Chemical name	BCF	Species	Source
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	150		Other company data (

#### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

UN 3082
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
9
III
9
M6
274 335 375 601
5 L
E1
3



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Hazard No:	90		
Tunnel restriction code:	-		
Inland waterways transport (ADN)			
<u>14.1. UN number:</u>	UN 3082		
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Classification code:	M6		
Special Provisions:	274 335 375 601		
Limited quantity: Excepted quantity:	5 L E1		
Marine transport (IMDG)	111 2002		
<u>14.1. UN number:</u>			
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Marine pollutant:	P		
Special Provisions:	274, 335, 969		
Limited quantity:	5 L		
Excepted quantity:	E1		
EmS: Air transport (ICAO-TI/IATA-DGR)	F-A, S-F		
<u>14.1. UN number:</u>	UN 3082		
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
14.2. UN proper shipping name:	(epoxy resin)		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Special Provisions:	A97 A158 A197		
Limited quantity Passenger:	30 kg G		
Passenger LQ:	Y964 E1		
Excepted quantity:			
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	964 450 L		
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:	964		
IATA-packing instructions - Cargo:	450 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	ves		
Danger releasing substance:	epoxy resin		
<b>14.6. Special precautions for user</b> No information available.			
<u>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</u> No information available.			



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#### **SECTION 15: Regulatory information**

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

EU regulatory information Information according to 2012/18/EU (SEVESO III):	E2 Hazardous to the Aquatic Environment
National regulatory information	
Water contaminating class (D):	2 - water contaminating
15.2. Chemical safety assessment	

# 1

For the following substances of this mixture a chemical safety assessment has been carried out: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane Formaldehyde, oligomeric reaction products with 1-chloro-2.3-epoxypropane and phenol 1.6-bis(2.3-epoxypropoxy)hexane

## **SECTION 16: Other information**

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) CAS: Chemical Abstracts Service (division of the American Chemical Society) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures, LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent EC50: Effectice concentration, 50 percent DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Relevant H and EUH statements (number and full text) H315 Causes skin irritation.

- H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411
- Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

# **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)