

according to Regulation (EC) No 1907/2006

CN-OC Cartidge Part A

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

1.1. Product identifier

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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

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Ceramic Polymer GmbH

Street: Daimlerring 9

Place: D-D-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)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1C

Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1

Reproductive toxicity: Repr. 1B

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage fertility.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-

(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane

Phenol, polymer with formaldehyde, glycidether

Signal word: Danger

Pictograms:









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Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.



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H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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 eve 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.

Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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 Regu	•			
9003-36-5	Formaldehyde, oligomeric reacti	on products with 1-chloro-2,3-epoxy	propane and phenol	25-30 %	
	500-006-8		01-2119454392-40		
	Skin Irrit. 2, Skin Sens. 1, Aquati	c Chronic 2; H315 H317 H411			
30499-70-8		ropoxy)-2,2-bis ((2,3-epoxypropoxy) ypropoxy)methyl)-2-hydroxy butane		25-30 %	
			01-2120078341-60		
	Repr. 1B, Skin Corr. 1C, Eye Da H411				
28064-14-4	Phenol, polymer with formaldehyde, glycidether				
	Skin Irrit. 2, Eye Irrit. 2, Skin Ser				
78-93-3	butanone	1-3 %			
	201-159-0	606-002-00-3	01-2119457290-43		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066				
	· ·	·	·		

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

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.



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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.

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.

Co-ordinate fire-fighting measures to the fire surroundings.

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



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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:

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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift



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DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane 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 ²			
Consumer DN	EL, long-term	inhalation	systemic	8,7 mg/m³			
Consumer DNEL, long-term		dermal	systemic	62,5 mg/kg bw/day			
Consumer DNEL, long-term		oral	systemic	6,25 mg/kg bw/day			
,							
30499-70-8	Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epo(2,3-epoxypropoxy))-2-hydroxy butane	oxypropoxy)methyl) but	tane and 1-(2,3-epo	xypropoxy)-2-			
Worker DNEL,		inhalation	systemic	1,17 mg/m³			
Worker DNEL,	long-term	dermal	systemic	0,67 mg/kg bw/day			
,							
78-93-3	butanone						
Consumer DN	EL, long-term	oral	systemic	31 mg/kg bw/day			
Consumer DN	EL, long-term	dermal	systemic	412 mg/kg bw/day			
Consumer DNEL, long-term		inhalation	systemic	106 mg/m³			
Worker DNEL, long-term		inhalation	systemic	600 mg/m³			
Worker DNEL, long-term		dermal	systemic	1161 mg/kg bw/day			



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PNEC values

CAS No	Substance				
Environmenta	Value				
9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol				
Freshwater		0,003 mg/l			
Freshwater s	ediment	0,294 mg/kg			
Marine sedim	ent	0,029 mg/kg			
Soil		0,237 mg/kg			
30499-70-8	Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)methyl)-2-hydroxy butane	sypropoxy)-2-			
Freshwater					
Freshwater (intermittent releases)		0,037 mg/l			
Freshwater sediment		0,02 mg/kg			
Marine sedim	ent	0,002 mg/kg			
Soil		0,002 mg/kg			
78-93-3	butanone				
Freshwater		55,8 mg/l			
Marine water	Marine water				
Freshwater s	284,74 mg/kg				
Marine sedim	284,7 mg/kg				
Secondary po	1000 mg/kg				
Soil 22,5 mg					

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

Suitable gloves type:

NBR (Nitrile rubber) DIN EN 374,

Butyl caoutchouc (butyl rubber) DIN EN 374

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:

Odour:

characteristic

Test method

not determined

pH-Value:

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Flash point:

not determined

Flammability

Solid: not determined
Gas: not determined

Explosive properties

No information available.

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not determined

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 20 °C): ~1,3 g/cm³

Water solubility: not determined

Solubility in other solvents

No information available.

Partition coefficient: not determined
Viscosity / dynamic: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information

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

Reacts 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

Does not decompose when used for intended uses. No known hazardous decomposition products.

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 (male/female)	ECHA		
	dermal	LD50	>2000 mg/kg	rat (male/female)	ECHA		
30499-70-8	Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2- ((2,3-epoxypropoxy)methyl)-2-hydroxy butane						
	oral	LD50	3398 mg/kg	Rat	OECD Guideline 401		
	dermal	LD50	> 3170 mg/kg	Rat	OECD Guideline 402		
78-93-3	butanone						
	oral	LD50	3300 mg/kg	Rat	IUCLID		
	dermal	LD50 mg/kg	6400 - 8000	Rabbit	Supplier		
	inhalative (4 h) aerosol	LC50	34,5 mg/l	Rat			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), (Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis

((2,3-epoxypropoxy)methyl) butane and 1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy

butane), (Phenol, polymer with formaldehyde, glycidether)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. (Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and

1-(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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.



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Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source			
78-93-3	butanone	butanone							
	Acute fish toxicity	LC50	2993 mg/l	96 h	Pimephales promelas	OECD Guideline 203			
	Acute algae toxicity	ErC50	2029 mg/l	96 h	Selenastrum capricornutum	OECD Guideline 201			
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	OECD Guideline 202			
	Acute bacteria toxicity	(1150 m	g/l)		Pseudomonas putida	Supplier			

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

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)

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (epoxy resin)

14.3. Transport hazard class(es): Ш 14.4. Packing group: Hazard label: R Classification code: C9 Special Provisions: 274 Limited quantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 80 Tunnel restriction code: Ε

Inland waterways transport (ADN)

14.1. UN number: UN 1760



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14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (epoxy resin)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Classification code:C9Special Provisions:274Limited quantity:5 LExcepted quantity:E1

Marine transport (IMDG)

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (epoxy resin)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Marine pollutant:pSpecial Provisions:223, 274Limited quantity:5 LExcepted quantity:E1

Air transport (ICAO)

EmS:

14.1. UN number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (epoxy resin)

F1

F-A. S-B

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:1 LPassenger LQ:Y841

IATA-packing instructions - Passenger:852IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:856IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

Excepted quantity:

ENVIRONMENTALLY HAZARDOUS: yes

Danger releasing substance: epoxy resin

14.6. Special precautions for user

No information available.

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

No information available.

SECTION 15: Regulatory information

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

National regulatory information



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Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of

child-bearing age.

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

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

Reaction mass of 1-(2,3-epoxypropoxy)-2,2-bis ((2,3-epoxypropoxy)methyl) butane and 1-

(2,3-epoxypropoxy)-2-((2,3-epoxypropoxy)methyl)-2-hydroxy butane

butanone

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1.

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)

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H360F May damage fertility.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH205 Contains epoxy constituents. May produce an allergic reaction.

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



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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.)