

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Wencon Ceramic Coating Light Grey - Component A  
**Revision date :** 28.03.2025  
**Print date :** 05-05-2025

**Version (Revision) :** 8.0.0 (7.0.0)

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

#### 1.1 Product identifier

Wencon Ceramic Coating Light Grey - Component A (285000110A)  
PR-number (Danish): 2347869

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

Solventfree two component filler compound based on epoxy

##### Relevant identified uses

In compliance with the conditions described in the annex to this safety data sheet. See section 16 for a comprehensive list of uses, for which an exposure scenarion is provided as an annex.

##### Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

##### Process categories [PROC]

PROC 19 - Manual activities involving hand contact

PROC 21 - Low energy manipulation of substances bound in materials and/or articles

PROC 24 - High (mechanical) energy work-up of substances bound in/on materials and/or articles

##### Environmental release categories [ERC]

ERC 8c - Widespread use leading to inclusion into/onto article (indoor)

ERC 8f - Widespread use leading to inclusion into/onto article (outdoor)

ERC 10a - Widespread use of articles with low release (outdoor)

ERC 11a - Widespread use of articles with low release (indoor)

##### Article categories [AC]

AC 7 - Metal articles

##### Uses advised against

Do not use for private purposes (household).

##### Remark

The product is intended for professional use.

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

**Supplier (manufacturer) :** Wencon ApS

**Street :** Jyllandsvej 15

**Postal code/City :** DK-5400 BOGENSE

**Telephone :** +45 6481 1010

**Information contact :** wencon@wencon.com

#### 1.4 Emergency telephone number

+44 870 600 62 66 (UK National Poisons Emergency Number)

European emergency number: 112. Danmark: (Giftlinjen +45 82 12 12 12), only for the purpose of informing medical personnel in cases of acute intoxications.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Repr. 1B ; H360F - Reproductive toxicity : Category 1B ; May damage fertility.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

##### Additional information

This preparation is classified as UN packing group (GHS subcategory) non-corrosive in accordance with OECD 435

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(In vitro membrane barrier test method for skin corrosion) and Part III, Section 37 of the UN Testing Manual (Classification procedures, test methods and criteria relating to substances of class 8).

## 2.2 Label elements

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

#### Hazard pictograms



Health hazard (GHS08) · Environment (GHS09) · Exclamation mark (GHS07)

#### Signal word

Danger

#### Hazard components for labelling

PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER ; CAS No. : 28064-14-4  
EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5  
BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3  
REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; CAS No. : 933999-84-9  
BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW ≤ 700 ; CAS No. : 9003-36-5  
BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3

#### Hazard statements

H360F May damage fertility.  
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

P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P405 Store locked up.

#### Special rules for supplemental label elements for certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray, or mist.

#### Remark

This preparation is classified as UN packing group (GHS subcategory) non-corrosive in accordance with OECD 435 (In vitro membrane barrier test method for skin corrosion) and Part III, Section 37 of the UN Testing Manual (Classification procedures, test methods and criteria relating to substances of class 8).

## 2.3 Other hazards

### Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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### Hazardous ingredients

PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER ; EC No. : 608-164-0; CAS No. : 28064-14-4

Weight fraction :  $\geq 20 - < 25 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

EPOXY PHENOL NOVOLAK RESIN ; REACH No. : 01-2119454392-40 ; EC No. : 701-263-0; CAS No. : 9003-36-5

Weight fraction :  $\geq 15 - < 20 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; REACH No. : 01-2119456619-26 ; EC No. : 216-823-5; CAS No. : 1675-54-3

Weight fraction :  $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319

Specific Conc. Limits : Eye Irrit. 2 ; H319: C  $\geq 5 \%$  • Skin Irrit. 2 ; H315: C  $\geq 5 \%$

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; REACH No. : 01-2119463471-41 ; EC No. : 618-939-5; CAS No. : 933999-84-9

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Repr. 1B ; H360F Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319

TITANIUM DIOXIDE ; EC No. : 236-675-5; CAS No. : 13463-67-7

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Carc. 2 ; H351 (Inhalation)

QUARTZ (SiO<sub>2</sub>) ; REACH No. : Annex V ; EC No. : 238-878-4; CAS No. : 14808-60-7

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : None

BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW  $\leq 700$  ; REACH No. : 01-211-454392-40 ; EC No. : 500-006-8; CAS No. : 9003-36-5

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; REACH No. : 01-2119456619-26 ; EC No. : 216-823-5; CAS No. : 1675-54-3

Weight fraction :  $\geq 0,5 - < 1 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

Specific Conc. Limits : Eye Irrit. 2 ; H319: C  $\geq 5 \%$  • Skin Irrit. 2 ; H315: C  $\geq 5 \%$

### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

#### In case of skin contact

In case of skin reactions, consult a physician. Immediately remove any contaminated clothing, shoes or stockings. After contact with skin, wash immediately with plenty of water and soap. Do not use force or solvents to remove product incrustations from affected skin areas. Do not let product dry on skin.

#### After eye contact

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

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ophthalmologist immediately.

### Following 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. Keep at rest.

### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam

#### Unsuitable extinguishing media

Water spray jet

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

Burning produces heavy smoke. Use suitable breathing apparatus.

#### Hazardous combustion products

Carbon monoxide

### 5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

#### For non-emergency personnel

Do not breathe gas/fumes/vapour/spray. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Use personal protection equipment. See protective measures under point 7 and 8.

#### For emergency responders

Do not breathe gas/fumes/vapour/spray. Use personal protection equipment. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Ensure waste is collected and contained.

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

#### For containment

Ensure waste is collected and contained.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

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None

### SECTION 7: Handling and storage



#### 7.1 Precautions for safe handling

##### Protective measures

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used. It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact Do not breathe gas/fumes/vapour/spray. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8). Never use pressure to empty container. Use only in well-ventilated areas.

##### Measures to prevent fire

Keep away from sources of ignition - No smoking.

##### Environmental precautions

Do not allow to enter into surface water or drains.

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

##### Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product. Keep/Store only in original container. Keep container tightly closed.

##### Hints on joint storage

Keep away from:

##### Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place. Store in a place accessible by authorized persons only. Handle and open container with care.

#### 7.3 Specific end use(s)

Observe instructions for use. The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### DNEL-/PNEC-values

###### DNEL/DMEL

EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 8,3 µg/cm<sup>2</sup>

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 29,39 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 104,15 mg/m<sup>3</sup> bw/day

BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW ≤ 700 ; CAS No. : 9003-36-5

Limit value type : DNEL worker (local)

Exposure route : Dermal

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|                      |                                 |
|----------------------|---------------------------------|
| Exposure frequency : | Long-term                       |
| Limit value :        | 8,3 µg/cm <sup>2</sup>          |
| Limit value type :   | DNEL worker (systemic)          |
| Exposure route :     | Inhalation                      |
| Exposure frequency : | Long-term                       |
| Limit value :        | 29,39 mg/m <sup>3</sup>         |
| Limit value type :   | DNEL worker (systemic)          |
| Exposure route :     | Dermal                          |
| Exposure frequency : | Long-term                       |
| Limit value :        | 104,15 mg/m <sup>3</sup> bw/day |

## 8.2 Exposure controls

### Personal protection equipment



#### Eye/face protection

##### Suitable eye protection

Eye glasses with side protection

#### Skin protection

##### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Wear cotton undermitten if possible.

**Suitable gloves type :** Disposable gloves.

**Suitable material :** NBR (Nitrile rubber)

**Required properties :** liquid-tight.

**Breakthrough time :** > 60 minutes

**Thickness of the glove material :** > 0.5 mm

**Recommended glove articles :** EN 374

**Additional hand protection measures :** Do not wear gloves near rotary machines and tools. Check leak tightness/impermeability prior to use. Wear cotton undermitten if possible. Use gloves only once. Take recovery periods for skin regeneration.

**Remark :** 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. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Observe the wear time limits as specified by the manufacturer. Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Barrier creams are not substitutes for body protection.

##### Body protection

**Remark :** Body protection: not required.

#### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

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

##### Suitable respiratory protection apparatus

Combination filtering device Filtering device (EN 147) Full-/half-/quarter-face masks (EN 136/140) Filtering Half-face mask (EN 149) Particle filter device (EN 143).

Filtering device (full mask or mouthpiece) with filter: A P

##### Additional measures for respiratory protection

Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m<sup>3</sup> (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m<sup>3</sup> (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m<sup>3</sup> (1.0 % by vol.) Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo. Full-face mask or mouthpiece with particulate filter: maximum use concentration for

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substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

### Remark

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Immediately remove any contaminated clothing, shoes or stockings.

### Other protection measures

Further information: see technical data sheet.

Further information: see technical data sheet.

Further information: see technical data sheet.

Technical measures and the application of suitable work processes have priority over personal protection equipment. See section 7. No additional measures necessary.

### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Paste

#### Appearance

**Colour :** light grey

#### Odour

characteristic

#### Safety characteristics

|                                                                            |                       |      |       |             |
|----------------------------------------------------------------------------|-----------------------|------|-------|-------------|
| Flash point :                                                              | >                     | 100  | °C    | DIN 53213-1 |
| Evaporation rate :                                                         | <                     | 1    |       |             |
| Vapour pressure :                                                          | ( 50 °C ) <           | 1000 | hPa   |             |
| Density :                                                                  | ( 20 °C ) approx.     | 1,55 | g/cm³ | DIN 53217   |
| Melting point/freezing point :                                             | not applicable        |      |       |             |
| Initial boiling point and boiling range :                                  | No data available     |      |       |             |
| Decomposition temperature :                                                | No data available     |      |       |             |
| Auto-ignition temperature :                                                | No data available     |      |       |             |
| Flammable gases :                                                          | Not applicable.       |      |       |             |
| Flammable solids :                                                         | Not applicable.       |      |       |             |
| Oxidising properties.                                                      | No data available.    |      |       |             |
| Lower explosion limit :                                                    | No data available     |      |       |             |
| Upper explosion limit :                                                    | No data available     |      |       |             |
| Explosive properties :                                                     | No data available.    |      |       |             |
| Relative vapour density :                                                  | No data available     |      |       |             |
| Water solubility :                                                         | practically insoluble |      |       |             |
| Partition coefficient n-octanol/water :                                    | No data available     |      |       |             |
| pH :                                                                       | No data available     |      |       |             |
| Flow time :                                                                | not determined        |      |       |             |
| Viscosity :                                                                | not applicable        |      |       |             |
| Kinematic viscosity :                                                      | No data available     |      |       |             |
| Odour threshold :                                                          | No data available     |      |       |             |
| - BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700; CAS No. : 9003-36-5 |                       |      |       |             |
| Initial boiling point and boiling range :                                  | ( 1000 hPa )          | 90   | °C    |             |

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### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Ignition hazard.

### 10.5 Incompatible materials

Exothermic reaction with: Amines.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### Acute toxicity

##### Acute oral toxicity

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| Parameter :      | LD50 ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )                                          |
| Exposure route : | Oral                                                                                               |
| Species :        | Rat                                                                                                |
| Effective dose : | > 5000 mg/kg                                                                                       |
| Parameter :      | LC50 ( REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; CAS No. : 933999-84-9 ) |
| Exposure route : | Oral                                                                                               |
| Species :        | Rat                                                                                                |
| Effective dose : | 2190 mg/kg                                                                                         |
| Parameter :      | LD50 ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )                 |
| Exposure route : | Oral                                                                                               |
| Species :        | Rat                                                                                                |
| Effective dose : | > 2000 mg/kg                                                                                       |

##### Acute dermal toxicity

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| Parameter :      | LD50 ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )                                          |
| Exposure route : | Dermal                                                                                             |
| Species :        | Rat                                                                                                |
| Effective dose : | > 2000 mg/kg                                                                                       |
| Parameter :      | LC50 ( REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; CAS No. : 933999-84-9 ) |
| Exposure route : | Dermal                                                                                             |
| Species :        | Rat                                                                                                |
| Effective dose : | > 2000 mg/kg                                                                                       |
| Parameter :      | LD50 ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )                 |
| Exposure route : | Dermal                                                                                             |
| Species :        | Rat                                                                                                |
| Effective dose : | > 2000 mg/kg                                                                                       |



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### Respiratory or skin sensitisation

EUH205 - Contains epoxy constituents. May produce an allergic reaction. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

#### Skin sensitisation

|                  |                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------|
| Parameter :      | Skin sensitisation ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )                          |
| Species :        | Guinea pig                                                                                       |
| Effective dose : | 50 %                                                                                             |
| Result :         | Sensitising.                                                                                     |
| Method :         | OECD 406                                                                                         |
| Parameter :      | Skin sensitisation ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 ) |
| Species :        | Guinea pig                                                                                       |
| Effective dose : | 50 %                                                                                             |
| Result :         | Sensitising.                                                                                     |
| Method :         | OECD 406                                                                                         |

#### Practical experience/human evidence

Causes skin irritation. Causes serious eye irritation.

### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

|                  |                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------|
| Parameter :      | Acute (short-term) fish toxicity ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )                          |
| Species :        | Acute (short-term) fish toxicity                                                                               |
| Effective dose : | 2,54 mg/l                                                                                                      |
| Exposure time :  | 96 h                                                                                                           |
| Parameter :      | LC50 ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )                                                      |
| Species :        | Fish                                                                                                           |
| Effective dose : | 2,54 mg/l                                                                                                      |
| Exposure time :  | 96 h                                                                                                           |
| Parameter :      | LC50 ( REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; CAS No. : 933999-84-9 )             |
| Species :        | Leuciscus idus (golden orfe)                                                                                   |
| Effective dose : | 30 mg/l                                                                                                        |
| Exposure time :  | 96 h                                                                                                           |
| Parameter :      | EC50 ( REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; CAS No. : 933999-84-9 )             |
| Species :        | Algae                                                                                                          |
| Effective dose : | 23,1 mg/l                                                                                                      |
| Exposure time :  | 48 h                                                                                                           |
| Parameter :      | EC50 ( REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; CAS No. : 933999-84-9 )             |
| Species :        | Daphnia magna (Big water flea)                                                                                 |
| Effective dose : | 47 mg/l                                                                                                        |
| Exposure time :  | 48 h                                                                                                           |
| Parameter :      | Acute (short-term) fish toxicity ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 ) |
| Species :        | Acute (short-term) fish toxicity                                                                               |
| Effective dose : | 2,54 mg/l                                                                                                      |

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Wencon Ceramic Coating Light Grey - Component A  
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Exposure time : 96 h

### Acute (short-term) toxicity to aquatic invertebrates

Parameter : EC50 ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 2,55 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )  
Species : Algae  
Effective dose : 1,8 mg/l  
Exposure time : 72 h

## 12.2 Persistence and degradability

### Biodegradation

Parameter : Biodegradation ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )  
Inoculum : Biodegradation  
Degradation rate : 16 %  
Test duration : 28  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301B  
Parameter : Biodegradation ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )  
Inoculum : Biodegradation  
Degradation rate : 16 %  
Test duration : 28  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301B

## 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 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

## 12.8 Additional ecotoxicological information

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3). Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No information available.

## SECTION 14: Transport information

### 14.1 UN number or ID number

UN 3082

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER  
· EPOXY PHENOL NOVOLAK RESIN )

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



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**Version (Revision) :** 8.0.0 (7.0.0)

### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER  
· EPOXY PHENOL NOVOLAK RESIN · BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 )

### Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER  
· EPOXY PHENOL NOVOLAK RESIN )

## 14.3 Transport hazard class(es)

### Land transport (ADR/RID)

Class(es) : 9  
Classification code : M6  
Hazard identification number (Kemler No.) : 90  
Tunnel restriction code : -  
Special Provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)  
Hazard label(s) : 9 / N

### Sea transport (IMDG)

Class(es) : 9  
EmS-No. : F-A / S-F  
Special Provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)  
Hazard label(s) : 9 / N

### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9  
Special Provisions : E 1 · IATA : - (SP A197 <= 5 l/kg)  
Hazard label(s) : 9 / N

## 14.4 Packing group

III

## 14.5 Environmental hazards

Land transport (ADR/RID) : Yes  
Sea transport (IMDG) : Yes (P)  
Air transport (ICAO-TI / IATA-DGR) : Yes

## 14.6 Special precautions for user

None

## 14.8 Additional information

This preparation is classified as UN packing group (GHS subcategory) non-corrosive in accordance with OECD 435 (In vitro membrane barrier test method for skin corrosion) and Part III, Section 37 of the UN Testing Manual (Classification procedures, test methods and criteria relating to substances of class 8).

## SECTION 15: Regulatory information

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

#### EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 75

#### National regulations

Directive 2004/42/EC is not applicable.

Other regulations, restrictions and prohibition regulations

Denmark

MAL Code

MAL Code : 5-5

Additional information

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



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Substance/product listed in the following inventories

Substance/product listed in the following inventories TSCA • EINECS/ELINCS • REACH

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 15. Restrictions on use

### 16.2 Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
ASTM = American Society of Testing and Materials (US)  
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)  
DNEL = Derived No-Effect Level  
DT50 = Time for 50% loss; half-life  
EbC50 = Median effective concentration (biomass, e.g. of algae)  
EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EWC = European Waste Catalogue  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
LC50 = Concentration required to kill 50% of test organisms  
LD50 = Dose required to kill 50% of test organisms  
LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
MRL = Maximum Residue Limit  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
OEL = Occupational Exposure Limits  
PBT = Persistent, Bioaccumulative or Toxic  
PNEC = Predicted No Effect Concentration  
STEL = Short-Term Exposure Limit  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| H315  | Causes skin irritation.                                            |
| H317  | May cause an allergic skin reaction.                               |
| H319  | Causes serious eye irritation.                                     |
| H351  | Suspected of causing cancer if inhaled.                            |
| H360F | May damage fertility.                                              |
| H373  | May cause damage to organs through prolonged or repeated exposure. |
| H411  | Toxic to aquatic life with long lasting effects.                   |

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Wencon Ceramic Coating Light Grey - Component A  
**Revision date :** 28.03.2025  
**Print date :** 05-05-2025

**Version (Revision) :** 8.0.0 (7.0.0)

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### 16.6 Training advice

The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

### 16.7 Additional information

This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

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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.

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# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Wencon Ceramic Coating Light Grey - Component B  
**Revision date :** 28.03.2025  
**Print date :** 05-05-2025

**Version (Revision) :** 11.0.0 (10.0.0)

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

#### 1.1 Product identifier

Wencon Ceramic Coating Light Grey - Component B (285000110B)  
PR-number (Danish): 2347877

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

Solventfree two component filler compound based on epoxy

##### Relevant identified uses

In compliance with the conditions described in the annex to this safety data sheet. See section 16 for a comprehensive list of uses, for which an exposure scenarion is provided as an annex.

##### Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

##### Process categories [PROC]

PROC 19 - Manual activities involving hand contact

PROC 21 - Low energy manipulation of substances bound in materials and/or articles

PROC 24 - High (mechanical) energy work-up of substances bound in/on materials and/or articles

##### Environmental release categories [ERC]

ERC 8c - Widespread use leading to inclusion into/onto article (indoor)

ERC 8f - Widespread use leading to inclusion into/onto article (outdoor)

ERC 10a - Widespread use of articles with low release (outdoor)

ERC 11a - Widespread use of articles with low release (indoor)

##### Article categories [AC]

AC 7 - Metal articles

##### Uses advised against

Do not use for private purposes (household).

##### Remark

The product is intended for professional use.

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

**Supplier (manufacturer) :** Wencon ApS

**Street :** Jyllandsvej 15

**Postal code/City :** DK-5400 BOGENSE

**Telephone :** +45 6481 1010

**Information contact :** wencon@wencon.com

#### 1.4 Emergency telephone number

+44 870 600 62 66 (UK National Poisons Emergency Number)

European emergency number: 112. Danmark: (Giftlinjen +45 82 12 12 12), only for the purpose of informing medical personnel in cases of acute intoxications.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

Repr. 1B ; H360F - Reproductive toxicity : Category 1B ; May damage fertility.

ED HH 1 ; EUH380 - Endocrine disruptor for human health : Category 1 ; May cause endocrine disruption in humans.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long

# Safety Data Sheet

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lasting effects.

ED ENV 1 ; EUH430 - Endocrine disruptor for the environment : Category 1 ; May cause endocrine disruption in the environment.

### Additional information

This preparation is classified as UN packing group (GHS subcategory) non-corrosive in accordance with OECD 435 (In vitro membrane barrier test method for skin corrosion) and Part III, Section 37 of the UN Testing Manual (Classification procedures, test methods and criteria relating to substances of class 8).

## 2.2 Label elements

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

Hazard pictograms



Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

### Signal word

Danger

### Hazard components for labelling

BENZYL ALCOHOL ; CAS No. : 100-51-6  
M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0  
BADGE-IPDA ADDUCT ; CAS No. : 38294-64-3  
4,4'-ISOPROPYLIDENEDIPHENOL ; CAS No. : 80-05-7  
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; CAS No. : 2855-13-2

### Hazard statements

|        |                                                    |
|--------|----------------------------------------------------|
| H360F  | May damage fertility.                              |
| H318   | Causes serious eye damage.                         |
| H302   | Harmful if swallowed.                              |
| H315   | Causes skin irritation.                            |
| H317   | May cause an allergic skin reaction.               |
| EUH380 | May cause endocrine disruption in humans.          |
| H411   | Toxic to aquatic life with long lasting effects.   |
| EUH430 | May cause endocrine disruption in the environment. |

### Precautionary statements

|      |                                                                             |
|------|-----------------------------------------------------------------------------|
| P202 | Do not handle until all safety precautions have been read and understood.   |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.                           |
| P263 | Avoid contact during pregnancy and while nursing.                           |
| P264 | Wash hands thoroughly after handling.                                       |
| P310 | Immediately call a POISON CENTER.                                           |
| P321 | Specific treatment (see supplemental first aid instructions on this label). |
| P405 | Store locked up.                                                            |

### Special rules for supplemental label elements for certain mixtures

|      |                                   |
|------|-----------------------------------|
| O220 | Restricted to professional users. |
|------|-----------------------------------|

### Remark

This preparation is classified as UN packing group (GHS subcategory) non-corrosive in accordance with OECD 435 (In vitro membrane barrier test method for skin corrosion) and Part III, Section 37 of the UN Testing Manual (Classification procedures, test methods and criteria relating to substances of class 8).

## 2.3 Other hazards

### Adverse human health effects and symptoms

The mixture contains  $\geq 0.1\%$  of substances that have endocrine disrupting properties. See SECTION 3 of this safety data sheet.

- 4,4'-ISOPROPYLIDENEDIPHENOL ; CAS No. : 80-05-7 ; EC No. : 201-245-8 ; Index No. : 604-030-00-0

### Adverse environmental effects

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)



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The mixture contains  $\geq 0.1\%$  of substances that have endocrine disrupting properties. See SECTION 3 of this safety data sheet.

- 4,4'-ISOPROPYLIDENEDIPHENOL ; CAS No. : 80-05-7 ; EC No. : 201-245-8 ; Index No. : 604-030-00-0

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

BENZYL ALCOHOL ; REACH No. : 01-2119492630-38 ; EC No. : 202-859-9 ; CAS No. : 100-51-6

Weight fraction :  $\geq 15 - < 20 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319

Specific Conc. Limits : (ATE - oral : 1200 mg/kg)

M-PHENYLENEBIS(METHYLAMINE) ; REACH No. : 01-2119480150-50 ; EC No. : 216-032-5 ; CAS No. : 1477-55-0

Weight fraction :  $\geq 10 - < 15 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Sens. 1B ; H317 Aquatic Chronic 3 ; H412 EUH071

BADGE-IPDA ADDUCT ; REACH No. : 01-2119965165-33 ; EC No. : 500-101-4 ; CAS No. : 38294-64-3

Weight fraction :  $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

4,4'-ISOPROPYLIDENEDIPHENOL ; REACH No. : 01-211945856-23 ; EC No. : 201-245-8 ; CAS No. : 80-05-7

Weight fraction :  $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Repr. 1B ; H360F Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 STOT SE 3 ; H335 ED HH 1 ; EUH380 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410 ED ENV 1 ; EUH430

Specific Conc. Limits : (M Chronic=10) • (M Acute=1)

POLYOXYPROPYLENE DIAMINE ; REACH No. : 01-2119557899-12 ; EC No. : 618-561-0 ; CAS No. : 9046-10-0

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Chronic 3 ; H412

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE ; REACH No. : 01-2119514687-32 ; EC No. : 220-666-8 ; CAS No. : 2855-13-2

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1A ; H317

Specific Conc. Limits : Skin Sens. 1A ; H317: C  $\geq 0,001 \%$  • (ATE - oral : 1030 mg/kg)

3-CYCLOHEXYLAMINO PROPYLAMINE ; REACH No. : 01-2120817177-54 ; EC No. : 222-001-7 ; CAS No. : 3312-60-5

Weight fraction :  $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Chronic 3 ; H412

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

4,4'-ISOPROPYLIDENEDIPHENOL ; REACH No. : 01-211945856-23 ; EC No. : 201-245-8 ; CAS No. : 80-05-7

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial



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respiration. Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

### In case of skin contact

In case of skin reactions, consult a physician. Immediately remove any contaminated clothing, shoes or stockings. After contact with skin, wash immediately with plenty of water and soap. Do not use force or solvents to remove product incrustations from affected skin areas. Do not let product dry on skin.

### After eye contact

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

### Following 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. Keep at rest.

### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam

#### Unsuitable extinguishing media

Water spray jet

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

Burning produces heavy smoke. Use suitable breathing apparatus.

#### Hazardous combustion products

Carbon monoxide

### 5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. 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

#### For non-emergency personnel

Do not breathe gas/fumes/vapour/spray. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Use personal protection equipment. See protective measures under point 7 and 8.

#### For emergency responders

Do not breathe gas/fumes/vapour/spray. Use personal protection equipment. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Ensure waste is collected and contained.

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

#### For containment

Ensure waste is collected and contained.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

#### Protective measures

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used. It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact Do not breathe gas/fumes/vapour/spray. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8). Never use pressure to empty container. Use only in well-ventilated areas.

#### Measures to prevent fire

Keep away from sources of ignition - No smoking.

#### Environmental precautions

Do not allow to enter into surface water or drains.

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

#### Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product. Keep/Store only in original container. Keep container tightly closed.

#### Hints on joint storage

Keep away from:

#### Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place. Store in a place accessible by authorized persons only. Handle and open container with care.

### 7.3 Specific end use(s)

Observe instructions for use. The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

4,4'-ISOPROPYLIDENEDIPHENOL ; CAS No. : 80-05-7

Limit value type (country of origin) : TWA ( EC )

Parameter : E: inhalable fraction

Limit value : 2 mg/m<sup>3</sup>

Version : 09-03-2022

### 8.2 Exposure controls

#### Personal protection equipment

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### Eye/face protection

#### Suitable eye protection

Eye glasses with side protection

### Skin protection

#### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Wear cotton undermitten if possible.

**Suitable gloves type :** Disposable gloves.

**Suitable material :** NBR (Nitrile rubber)

**Required properties :** liquid-tight.

**Breakthrough time :** > 60 minutes

**Thickness of the glove material :** > 0.5 mm

**Recommended glove articles :** EN 374

**Additional hand protection measures :** Do not wear gloves near rotary machines and tools. Check leak tightness/impermeability prior to use. Wear cotton undermitten if possible. Use gloves only once. Take recovery periods for skin regeneration.

**Remark :** 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. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Observe the wear time limits as specified by the manufacturer. Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Barrier creams are not substitutes for body protection.

#### Body protection

**Remark :** Body protection: not required.

### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

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

#### Suitable respiratory protection apparatus

Combination filtering device Filtering device (EN 147) Full-/half-/quarter-face masks (EN 136/140) Filtering Half-face mask (EN 149) Particle filter device (EN 143).

Filtering device (full mask or mouthpiece) with filter: A P

#### Additional measures for respiratory protection

Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m<sup>3</sup> (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m<sup>3</sup> (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m<sup>3</sup> (1.0 % by vol.) Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo. Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

#### Remark

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work. Immediately remove any contaminated clothing, shoes or stockings.

### Other protection measures

Further information: see technical data sheet.

Further information: see technical data sheet.

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Further information: see technical data sheet.

Technical measures and the application of suitable work processes have priority over personal protection equipment. See section 7. No additional measures necessary.

### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Paste

#### Appearance

**Colour :** grey

#### Odour

Amines

#### Safety characteristics

|                                           |                       |         |           |             |
|-------------------------------------------|-----------------------|---------|-----------|-------------|
| Flash point :                             | >                     | 150     | °C        | DIN 53213-1 |
| Evaporation rate :                        | <                     | 1       |           |             |
| Vapour pressure :                         | ( 50 °C )             | <       | 1000 hPa  |             |
| Density :                                 | ( 20 °C )             | approx. | 1,3 g/cm³ | DIN 53217   |
| pH :                                      |                       |         | 6 - 8     |             |
| Melting point/freezing point :            | not applicable        |         |           |             |
| Initial boiling point and boiling range   |                       |         |           |             |
| :                                         | No data available     |         |           |             |
| Decomposition temperature :               | No data available     |         |           |             |
| Auto-ignition temperature :               | No data available     |         |           |             |
| Flammable gases :                         | Not applicable.       |         |           |             |
| Flammable solids :                        | Not applicable.       |         |           |             |
| Oxidising properties.                     | No data available.    |         |           |             |
| Lower explosion limit :                   | No data available     |         |           |             |
| Upper explosion limit :                   | No data available     |         |           |             |
| Explosive properties :                    | No data available.    |         |           |             |
| Relative vapour density :                 | No data available     |         |           |             |
| Water solubility :                        | practically insoluble |         |           |             |
| Partition coefficient n-octanol/water     |                       |         |           |             |
| :                                         | No data available     |         |           |             |
| Flow time :                               | not determined        |         |           |             |
| Viscosity :                               | not applicable        |         |           |             |
| Kinematic viscosity :                     | No data available     |         |           |             |
| Odour threshold :                         | No data available     |         |           |             |
| - BENZYL ALCOHOL; CAS No. : 100-51-6      |                       |         |           |             |
| Initial boiling point and boiling range : | ( 1000 hPa )          | 106     | °C        |             |

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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### 10.4 Conditions to avoid

Ignition hazard.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### Acute toxicity

##### Acute oral toxicity

|                  |                                                            |
|------------------|------------------------------------------------------------|
| Parameter :      | LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )               |
| Exposure route : | Oral                                                       |
| Species :        | Rat                                                        |
| Effective dose : | 1230 mg/kg                                                 |
| Parameter :      | LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )               |
| Exposure route : | Oral                                                       |
| Species :        | Mouse                                                      |
| Effective dose : | 1600 mg/kg                                                 |
| Parameter :      | LD50 ( M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0 ) |
| Exposure route : | Oral                                                       |
| Species :        | Rat                                                        |
| Effective dose : | 1200 mg/kg                                                 |
| Parameter :      | LD50 ( POLYOXYPROPYLENE DIAMINE ; CAS No. : 9046-10-0 )    |
| Exposure route : | Oral                                                       |
| Species :        | Rat                                                        |
| Effective dose : | 580 mg/kg                                                  |

##### Acute dermal toxicity

|                  |                                                            |
|------------------|------------------------------------------------------------|
| Parameter :      | LD50 ( M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0 ) |
| Exposure route : | Dermal                                                     |
| Species :        | Rat                                                        |
| Effective dose : | 2000 mg/kg                                                 |
| Parameter :      | LD50 ( POLYOXYPROPYLENE DIAMINE ; CAS No. : 9046-10-0 )    |
| Exposure route : | Dermal                                                     |
| Species :        | Rabbit                                                     |
| Effective dose : | 670 mg/kg                                                  |

##### Acute inhalation toxicity

|                  |                                              |
|------------------|----------------------------------------------|
| Parameter :      | LC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 ) |
| Exposure route : | Inhalation                                   |
| Species :        | Rat                                          |
| Effective dose : | 1000 ppm                                     |
| Exposure time :  | 8 h                                          |

#### Respiratory or skin sensitisation

Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

##### Skin sensitisation

###### Practical experience/human evidence

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Causes burns. Causes serious eye damage.

### 11.2 Information on other hazards

No information available.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

There are no data available on the mixture itself.

#### 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 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

#### 12.8 Additional ecotoxicological information

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3). Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

No information available.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

#### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

#### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

#### 14.4 Packing group

No dangerous good in sense of these transport regulations.

#### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

#### 14.6 Special precautions for user

None

#### 14.8 Additional information

This preparation is classified as UN packing group (GHS subcategory) non-corrosive in accordance with OECD 435 (In vitro membrane barrier test method for skin corrosion) and Part III, Section 37 of the UN Testing Manual (Classification procedures, test methods and criteria relating to substances of class 8).

### SECTION 15: Regulatory information

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

EU legislation

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### Authorisations and/or restrictions on use

#### Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 30, 66, 75

### National regulations

Directive 2004/42/EC is not applicable.

### Other regulations, restrictions and prohibition regulations

#### Denmark

##### MAL Code

MAL Code : 3-5

### Additional information

#### Substance/product listed in the following inventories

Substance/product listed in the following inventories TSCA • EINECS/ELINCS • REACH

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 08. Occupational exposure limit values · 15. Restrictions on use

### 16.2 Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
ASTM = American Society of Testing and Materials (US)  
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)  
DNEL = Derived No-Effect Level  
DT50 = Time for 50% loss; half-life  
EbC50 = Median effective concentration (biomass, e.g. of algae)  
EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EWC = European Waste Catalogue  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
LC50 = Concentration required to kill 50% of test organisms  
LD50 = Dose required to kill 50% of test organisms  
LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
MRL = Maximum Residue Limit  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
OEL = Occupational Exposure Limits  
PBT = Persistent, Bioaccumulative or Toxic  
PNEC = Predicted Non Effect Concentration  
STEL = Short-Term Exposure Limit  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No

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### 1272/2008 [CLP]

No information available.

#### 16.5 Relevant H- and EUH-phrases (Number and full text)

|        |                                                       |
|--------|-------------------------------------------------------|
| EUH380 | May cause endocrine disruption in humans.             |
| EUH430 | May cause endocrine disruption in the environment.    |
| H301   | Toxic if swallowed.                                   |
| H302   | Harmful if swallowed.                                 |
| H311   | Toxic in contact with skin.                           |
| H314   | Causes severe skin burns and eye damage.              |
| H317   | May cause an allergic skin reaction.                  |
| H318   | Causes serious eye damage.                            |
| H319   | Causes serious eye irritation.                        |
| H332   | Harmful if inhaled.                                   |
| H335   | May cause respiratory irritation.                     |
| H360F  | May damage fertility.                                 |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH071 | Corrosive to the respiratory tract.                   |

#### 16.6 Training advice

The regulations of the national employment safety and employment protection commission about the handling for polyurethane/epoxy have to be observed.

#### 16.7 Additional information

This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

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.