

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**

**WENCON®**

**Trade name :** Wencon Ceramic Coating Light Grey - Component A  
**Revision date :** 09.01.2018  
**Print date :** 02-02-2018

**Version (Revision) :** 3.0.0 (2.1.0)

**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 scenario is provided as an annex.

**Sector of uses [SU]**

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Article categories [AC]**

AC7 - Metal articles

**Process categories [PROC]**

PROC19 - Hand-mixing with intimate contact and only PPE available

PROC21 - Low energy manipulation of substances bound in materials and/or articles

PROC24 - High (mechanical) energy work-up of substances bound in materials and/or articles

**Environmental release categories [ERC]**

ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release

ERC11a - Wide dispersive indoor use of long-life articles and materials with low release

**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]**

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

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

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

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

**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

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(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



Exclamation mark (GHS07)

#### Signal word

Warning

#### Hazard components for labelling

BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5  
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6  
1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4

#### Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

EUH205 Contains epoxy constituents. May produce an allergic reaction.

#### 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

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER ; CAS No. : 28064-14-4

Weight fraction :  $\geq 10 - < 25$  %  
Classification 1272/2008 [CLP] : Aquatic Chronic 4 ; H413

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

Weight fraction :  $\geq 10 - < 25$  %  
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; REACH registration No. : 01-2119456619-26 ; CAS No. : 25068-38-6

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Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

1,6 HEXANDIOL DIGLYCIDYLETHER ; REACH registration No. : 01-2119463471-41 ; EC No. : 240-260-4 ; CAS No. : 16096-31-4

Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

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

Weight fraction :  $\geq 1 - < 2,5 \%$   
Classification 1272/2008 [CLP] : STOT RE 2 ; H373

### Additional information

Full text of H- and EUH-phrases: 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 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 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. 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

#### Effects

After eye contact  
Irritating to eyes.

In case of skin contact  
Irritating to skin. May cause an allergic skin reaction.

### 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

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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**

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.

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## 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

None

### 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 (maximum wearing 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

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

**Suitable respiratory protection apparatus**

Combination filtering device (EN 14387). Filtering device (DIN EN 147). Full-/half-/quarter-face masks (DIN EN 136/140). Filtering Half-face mask (DIN EN 149). Particle filter device (DIN 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 exposure limit. 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 400 times the exposure limit.

**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 health and safety measures**

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.

**Occupational exposure controls**

**Product related measures to prevent exposure**

Further information: see technical data sheet.

**Instructional measures to prevent exposure**

Further information: see technical data sheet.

**Organisational measures to prevent exposure**

Further information: see technical data sheet.

**Technical measures to prevent exposure**

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 relevant basis data**

<b>Melting point/melting range :</b>		not applicable
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	No data available
<b>Decomposition temperature :</b>		No data available
<b>Flash point :</b>	>	100 °C DIN 53213-1
<b>Ignition temperature :</b>		No data available
<b>Evaporation rate :</b>	<	1
<b>Flammable gases :</b>		Not applicable.
<b>Flammable solids :</b>		Not applicable.
<b>Oxidising properties.</b>		No data available.

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<b>Lower explosion limit :</b>				No data available
<b>Upper explosion limit :</b>				No data available
<b>Explosive properties :</b>				No data available.
<b>Vapour pressure :</b>	( 50 °C )	<	1000	hPa
<b>Relative vapour density :</b>				No data available
<b>Relative density :</b>	( 20 °C )	approx.	1,55	g/cm <sup>3</sup> DIN 53217
<b>Water solubility :</b>	( 20 °C )			insoluble
<b>Partition coefficient n-octanol/water :</b>				No data available
<b>pH :</b>				No data available
<b>Viscosity :</b>	( 20 °C )			not applicable
<b>Cinematic viscosity :</b>	( 40 °C )			No data available
<b>Odour threshold :</b>				No data available

## 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 toxicological effects

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

#### Acute effects

##### Acute oral toxicity

Parameter : LD50 ( BISPENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )

Exposure route : Oral

Species : Rat

Effective dose : > 2000 mg/kg

Parameter : LC50 ( REACTION PRODUCT: BISPENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )

Exposure route : Oral

Species : Rat

Effective dose : 30000 mg/kg

Parameter : LC50 ( 1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4 )

Exposure route : Oral

Species : Rat

Effective dose : > 2000 mg/kg

##### Acute dermal toxicity

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Parameter : LD50 ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LC50 ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LC50 ( 1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg

### Irritant and corrosive effects

#### Primary irritation to the skin

Irritating to skin.

#### Irritation to eyes

Irritating to eyes.

### 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.

#### In case of skin contact

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  
Parameter : Skin sensitisation ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )  
Species : Guinea pig  
Effective dose : 50 %  
Result : Strong sensitising.  
Method : OECD 406

May cause an allergic skin reaction.

#### Practical experience/human evidence

Causes skin irritation. Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.

#### Aquatic toxicity

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I. Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

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

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  
Exposure time : 96 h  
Parameter : LC50 ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )

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Species : Fish  
Effective dose : 1,3 mg/l  
Exposure time : 96 h  
Method : OECD 203

**Sediment toxicity**

**Toxicity to soil macroorganisms**

**Acute earthworm toxicity**

**Chronical earthworm toxicity (reproduction)**

**Long-term toxicity of organisms living in the sediment**

**12.2 Persistence and degradability**

**Abiotic degradation**

**Abiotic degradation in Water**

**Hydrolysis**

**Biodegradation**

Parameter : Biodegradation ( BISPENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )

Inoculum : Biodegradation

Effective dose : 16 %

Exposure time : 28

Evaluation : Not readily biodegradable (according to OECD criteria)

Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

Parameter : Biodegradation ( REACTION PRODUCT: BISPENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )

Inoculum : Biodegradation

Effective dose : 12 %

Exposure time : 28

Evaluation : Not readily biodegradable (according to OECD criteria)

Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

No information available.

**12.7 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**

**Product/Packaging disposal**

Do not allow to enter into surface water or drains.

**Waste treatment options**

**Appropriate disposal / Product**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance

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itself.

### SECTION 14: Transport information

#### 14.1 UN 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

##### National regulations

**MAL code number according to Executive Order no. 301 from 13 May 1993 on the determination of code numbers (The Danish Working Environment Service)**

MAL code number 5-5

##### 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

03. Hazardous ingredients

#### 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

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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 = Previsible 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 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.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### 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.

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**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 scenario is provided as an annex.

**Sector of uses [SU]**

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Article categories [AC]**

AC7 - Metal articles

**Process categories [PROC]**

PROC19 - Hand-mixing with intimate contact and only PPE available

PROC21 - Low energy manipulation of substances bound in materials and/or articles

PROC24 - High (mechanical) energy work-up of substances bound in materials and/or articles

**Environmental release categories [ERC]**

ERC8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

ERC10a - Wide dispersive outdoor use of long-life articles and materials with low release

ERC11a - Wide dispersive indoor use of long-life articles and materials with low release

**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]**

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

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

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

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

Repr. 2 ; H361f - Reproductive toxicity : Category 2 ; Suspected of damaging fertility.

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

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### 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

M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0

4-TERT-BUTYLPHENOL ; CAS No. : 98-54-4

REACTION PRODUCTS OF FORMALDEHYDE WITH 1,3-BENZENEDIMETHANAMINE AND 4-TERT-BUTYLPHENOL ; CAS No. : 158800-93-2

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8

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

##### Hazard statements

H361f Suspected of damaging fertility.  
H318 Causes serious eye damage.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P310 Immediately call a POISON CENTER.  
P330 Rinse mouth.  
P405 Store locked up.

##### 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

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

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

Weight fraction :  $\geq 10 - < 25$  %

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

4-TERT-BUTYLPHENOL ; REACH registration No. : 01-2119489419-21 ; EC No. : 202-679-0; CAS No. : 98-54-4

Weight fraction :  $\geq 10 - < 25$  %

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Classification 1272/2008 [CLP] : Repr. 2 ; H361f Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

BENZYL ALCOHOL ; REACH registration No. : 001-2119492630-38 ; EC No. : 202-859-9 ; CAS No. : 100-51-6  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319

REACTION PRODUCTS OF FORMALDEHYDE WITH 1,3-BENZENEDIMETHANAMINE AND 4-TERT-BUTYLPHENOL ; EC No. : 605-164-2 ; CAS No. : 158800-93-2  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

2-PIPERAZIN-1-YLETHYLAMINE ; REACH registration No. : 01-2119471486-30 ; EC No. : 205-411-0 ; CAS No. : 140-31-8  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

2-METHYL-1,5-PENTANEDIAMINE ; REACH registration No. : 01-2119976310-41 ; EC No. : 239-556-6 ; CAS No. : 15520-10-2  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332

4,4'-ISOPROPYLIDENEDIPHENOL ; REACH registration No. : 01-211945756-23 ; EC No. : 201-245-8 ; CAS No. : 80-05-7  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Repr. 2 ; H361f Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 STOT SE 3 ; H335

NONYLPHENOLE ; REACH registration No. : 01-2119510715-45 ; EC No. : 284-325-5 ; CAS No. : 84852-15-3  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Repr. 2 ; H361fd Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

**This mixture 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 registration No. : 01-211945756-23 ; EC No. : 201-245-8 ; CAS No. : 80-05-7  
NONYLPHENOLE ; REACH registration No. : 01-2119510715-45 ; EC No. : 284-325-5 ; CAS No. : 84852-15-3

**This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH**

4,4'-ISOPROPYLIDENEDIPHENOL ; REACH registration No. : 01-211945756-23 ; EC No. : 201-245-8 ; CAS No. : 80-05-7

#### Additional information

Full text of H- and EUH-phrases: 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 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 ophthalmologist immediately.

#### After ingestion

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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**

**Effects**

After eye contact  
Causes serious eye damage.

In case of skin contact  
Irritating to skin. May cause an allergic skin reaction.

**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**

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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 : 10 mg/m<sup>3</sup>

Version : 17-12-2009

### 8.2 Exposure controls

#### Personal protection equipment



**Eye/face protection**

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**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 (maximum wearing 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 (EN 14387). Filtering device (DIN EN 147). Full-/half-/quarter-face masks (DIN EN 136/140). Filtering Half-face mask (DIN EN 149). Particle filter device (DIN 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 exposure limit. 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 400 times the exposure limit.

**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 health and safety measures**

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.

**Occupational exposure controls**

**Product related measures to prevent exposure**

Further information: see technical data sheet.

**Instructional measures to prevent exposure**

Further information: see technical data sheet.

**Organisational measures to prevent exposure**

Further information: see technical data sheet.

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**Technical measures to prevent exposure**

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 relevant basis data**

<b>Melting point/melting range :</b>				not applicable
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )			No data available
<b>Decomposition temperature :</b>				No data available
<b>Flash point :</b>		>	150 °C	DIN 53213-1
<b>Ignition temperature :</b>				No data available
<b>Evaporation rate :</b>		<	1	
<b>Flammable gases :</b>				Not applicable.
<b>Flammable solids :</b>				Not applicable.
<b>Oxidising properties.</b>				No data available.
<b>Lower explosion limit :</b>				No data available
<b>Upper explosion limit :</b>				No data available
<b>Explosive properties :</b>				No data available.
<b>Vapour pressure :</b>	( 50 °C )	<	1000 hPa	
<b>Relative vapour density :</b>				No data available
<b>Relative density :</b>	( 20 °C )	approx.	1,3 g/cm <sup>3</sup>	DIN 53217
<b>Water solubility :</b>	( 20 °C )			insoluble
<b>Partition coefficient n-octanol/water :</b>				No data available
<b>pH :</b>				6 - 8
<b>Viscosity :</b>	( 20 °C )			not applicable
<b>Cinematic viscosity :</b>	( 40 °C )			No data available
<b>Odour threshold :</b>				No data available

**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**

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No information available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1200 mg/kg
Parameter :	LD50 ( 4-TERT-BUTYLPHENOL ; CAS No. : 98-54-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	2951 mg/kg
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 ( 2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1470 mg/kg
Parameter :	LD50 ( NONYLPHENOLE ; CAS No. : 84852-15-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1900 mg/kg

Harmful by inhalation and if swallowed.

##### 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 ( 4-TERT-BUTYLPHENOL ; CAS No. : 98-54-4 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2288 mg/kg
Parameter :	LD50 ( 2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	880 mg/kg
Parameter :	LD50 ( NONYLPHENOLE ; CAS No. : 84852-15-3 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2140 mg/kg

##### Acute inhalation toxicity

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

**Irritant and corrosive effects**

**Primary irritation to the skin**

Irritating to skin.

**Irritation to eyes**

Causes serious eye damage.

**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.

**In case of skin contact**

May cause an allergic skin reaction.

**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.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Reproductive toxicity**

**Assessment/classification**

Suspected of damaging fertility or the unborn child.

**SECTION 12: Ecological information**

**12.1 Toxicity**

There are no data available on the mixture itself.

**Aquatic toxicity**

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

**Sediment toxicity**

**Toxicity to soil macroorganisms**

**Acute earthworm toxicity**

**Chronical earthworm toxicity (reproduction)**

**Long-term toxicity of organisms living in the sediment**

**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**

No information available.

**12.6 Other adverse effects**

No information available.

**12.7 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**

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**Product/Packaging disposal**

Do not allow to enter into surface water or drains.

**Waste treatment options**

**Appropriate disposal / Product**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**14.1 UN number**

UN 3082

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 4-TERT-BUTYLPHENOL · NONYLPHENOLE )

**Sea transport (IMDG)**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 4-TERT-BUTYLPHENOL · REACTION PRODUCTS OF FORMALDEHYDE WITH 1,3-BENZENEDIMETHANAMINE AND 4-TERT-BUTYLPHENOL · NONYLPHENOLE )

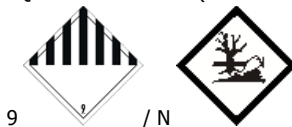
**Air transport (ICAO-TI / IATA-DGR)**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 4-TERT-BUTYLPHENOL · NONYLPHENOLE )

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

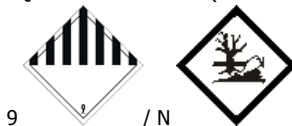
**Class(es) :** 9  
**Classification code :** M6  
**Hazard identification number (Kemler No.) :** 90  
**Tunnel restriction code :** -  
**Special provisions :** LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)  
**Hazard label(s) :**



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

# Safety Data Sheet

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

# WENCON®

**Trade name :** Wencon Ceramic Coating Light Grey - Component B  
**Revision date :** 02.10.2017  
**Print date :** 02-02-2018

**Version (Revision) :** 5.0.0 (4.0.0)

### 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

#### National regulations

**MAL code number according to Executive Order no. 301 from 13 May 1993 on the determination of code numbers (The Danish Working Environment Service)**

MAL code number 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. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients

### 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

# Safety Data Sheet

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

# WENCON®

**Trade name :** Wencon Ceramic Coating Light Grey - Component B  
**Revision date :** 02.10.2017  
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**Version (Revision) :** 5.0.0 (4.0.0)

PBT = Persistent, Bioaccumulative or Toxic  
PNEC = Previsible 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 1272/2008 [CLP]

No information available.

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

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### 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.

Trade name : Wencon Ceramic Coating Light Green - Component A  
Revision date : 03.07.2020 Version (Revision) : 4.0.0 (3.0.0)  
Print date : 25-06-2021 Vouch-No. : 12-0112210407

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

### 1.1 Product identifier

Wencon Ceramic Coating Light Green - Component A (285000100A)  
PR-number (Danish): 2347834

### 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. Denmark: (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]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

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

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

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

#### Additional information

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

Trade name : Wencon Ceramic Coating Light Green - Component A  
Revision date : 03.07.2020  
Print date : 25-06-2021

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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



Exclamation mark (GHS07)

#### Signal word

Warning

#### Hazard components for labelling

BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5  
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6  
1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4  
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  
PHENOL, METHYL STYRENATED ; CAS No. : 68512-30-1

#### Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

EUH205 Contains epoxy constituents. May produce an allergic reaction.

#### 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

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER ; CAS No. : 28064-14-4

Weight fraction :  $\geq 10$  - < 25 %

Classification 1272/2008 [CLP] : Aquatic Chronic 4 ; H413

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

Trade name : Wencon Ceramic Coating Light Green - Component A  
Revision date : 03.07.2020 Version (Revision) : 4.0.0 (3.0.0)  
Print date : 25-06-2021 Vouch-No. : 12-0112210407

Weight fraction :  $\geq 10 - < 25 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT  $\leq 700$ ) ; REACH No. : 01-2119456619-26 ; EC No. : 500-033-5; CAS No. : 25068-38-6

Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

1,6 HEXANDIOL DIGLYCIDYLETHER ; REACH No. : 01-2119463471-41 ; EC No. : 240-260-4; CAS No. : 16096-31-4

Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

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

Weight fraction :  $\geq 1 - < 2,5 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411

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

Weight fraction :  $\geq 1 - < 2,5 \%$   
Classification 1272/2008 [CLP] : STOT RE 2 ; H373

BIS-[4-(2,3-EPOXIPOPOXI)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

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 :  $\geq 0,5 - < 1 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

PHENOL, METHYL STYRENATED ; REACH No. : 01-2119555274-38 ; EC No. : 270-966-8; CAS No. : 68512-30-1

Weight fraction :  $\geq 0,5 - < 1 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

#### Additional information

Full text of H- and EUH-phrases: 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 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 ophthalmologist immediately.

#### After ingestion

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

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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**

**Effects**

After eye contact  
Irritating to eyes.

In case of skin contact  
Irritating to skin. May cause an allergic skin reaction.

**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

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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  
None

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

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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 (maximum wearing 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 (EN 14387) Filtering device (DIN EN 147) Full-/half-/quarter-face masks (DIN EN 136/140) Filtering Half-face mask (DIN EN 149) Particle filter device (DIN 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

##### Product related measures to prevent exposure

Further information: see technical data sheet.

##### Instructional measures to prevent exposure

Further information: see technical data sheet.

##### Organisational measures to prevent exposure

Further information: see technical data sheet.

##### Technical measures to prevent exposure

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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Paste

#### Appearance

Colour : light green

#### Odour

characteristic

#### Safety characteristics

Melting point/freezing point :				not applicable
Initial boiling point and boiling range :	( 1013 hPa )			No data available
Decomposition temperature :				No data available
Flash point :		>	100 °C	DIN 53213-1
Auto-ignition temperature :				No data available
Evaporation rate :		<	1	
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.
Vapour pressure :	( 50 °C )	<	1000 hPa	
Relative vapour density :				No data available
Relative density :	( 20 °C )	approx.	1,55 g/cm <sup>5</sup>	DIN 53217
Water solubility :	( 20 °C )			practically insoluble
Partition coefficient n-octanol/water :				No data available
pH :				No data available
Viscosity :	( 20 °C )			not applicable
Cinematic viscosity :	( 40 °C )			No data available
Odour threshold :				No data available

### 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

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### 11.1 Information on toxicological effects

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

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LC50 ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 30000 mg/kg  
Parameter : LC50 ( 1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg  
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

##### Acute dermal toxicity

Parameter : LD50 ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LC50 ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LC50 ( 1,6 HEXANDIOL DIGLYCIDYLETHER ; CAS No. : 16096-31-4 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
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

#### Corrosion

##### Skin corrosion/irritation

Irritating to skin.

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#### Serious eye damage/eye irritation

Irritating to eyes.

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

Species : Guinea pig

Effective dose : 50 %

Result : Sensitising.

Method : OECD 406

Parameter : Skin sensitisation ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )

Species : Guinea pig

Effective dose : 50 %

Result : Strong sensitising.

Method : OECD 406

Parameter : Skin sensitisation ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )

Species : Guinea pig

Effective dose : 50 %

Result : Sensitising.

Method : OECD 406

May cause an allergic skin reaction.

##### Practical experience/human evidence

Causes skin irritation. Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.

#### Aquatic toxicity

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I. Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

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

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

Exposure time : 96 h

Parameter : LC50 ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )

Species : Fish

Effective dose : 1,3 mg/l

Exposure time : 96 h

Method : OECD 203

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

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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

**Acute (short-term) toxicity to crustacea**

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

**Sediment toxicity**

Toxicity to soil macroorganisms  
Acute earthworm toxicity  
Chronical earthworm toxicity (reproduction)  
Long-term toxicity of organisms living in the sediment

**12.2 Persistence and degradability**

**Abiotic degradation**

Abiotic degradation (Water)  
Hydrolysis

**Biodegradation**

Parameter : Biodegradation ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 ; CAS No. : 9003-36-5 )  
Inoculum : Biodegradation  
Effective dose : 16 %  
Exposure time : 28  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301B  
Parameter : Biodegradation ( REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN), EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700) ; CAS No. : 25068-38-6 )  
Inoculum : Biodegradation  
Effective dose : 12 %  
Exposure time : 28  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301B  
Parameter : Biodegradation ( EPOXY PHENOL NOVOLAK RESIN ; CAS No. : 9003-36-5 )  
Inoculum : Biodegradation  
Effective dose : 16 %  
Exposure time : 28  
Evaluation : Not readily biodegradable (according to OECD criteria)

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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

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 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

#### Product/Packaging disposal

Do not allow to enter into surface water or drains.

#### Waste treatment options

##### Appropriate disposal / Product

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

##### Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN 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

# Safety Data Sheet

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

# WENCON®

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## EU legislation

### Authorisations and/or restrictions on use

#### Restrictions on use

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

### National regulations

REACH-Regulation(1907/2006) Annex XVII [RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES] 3

Directive 2004/42/EC is not applicable.

**MAL code number according to Executive Order no. 301 from 13 May 1993 on the determination of code numbers (The Danish Working Environment Service)**

MAL code number 5-5

### 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. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 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

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**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.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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

### 1.1 Product identifier

Wencon Ceramic Coating Light Green - Component B (285000100B)  
PR-number (Danish): 2347850

### 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 scenario 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. Denmark: (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]

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

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

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

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

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

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

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### 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

M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0

4-TERT-BUTYLPHENOL ; CAS No. : 98-54-4

REACTION PRODUCTS OF FORMALDEHYDE WITH 1,3-BENZENEDIMETHANAMINE AND 4-TERT-BUTYLPHENOL ; CAS No. : 158800-93-2

2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8

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

#### 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.  
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.  
P310 Immediately call a POISON CENTER.  
P330 Rinse mouth.  
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

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

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

Weight fraction :  $\geq 10 - < 25$  %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Sens. 1 ; H317

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Aquatic Chronic 3 ; H412  
4-TERT-BUTYLPHENOL ; REACH No. : 01-2119489419-21 ; EC No. : 202-679-0 ; CAS No. : 98-54-4  
Weight fraction :  $\geq 10 - < 25 \%$   
Classification 1272/2008 [CLP] : Repr. 2 ; H361f Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 Aquatic Chronic 1 ; H410  
BENZYL ALCOHOL ; REACH No. : 01-2119492630-38 ; EC No. : 202-859-9 ; CAS No. : 100-51-6  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319  
REACTION PRODUCTS OF FORMALDEHYDE WITH 1,3-BENZENEDIMETHANAMINE AND 4-TERT-BUTYLPHENOL ; EC No. : 605-164-2 ; CAS No. : 158800-93-2  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411  
2-PIPERAZIN-1-YLETHYLAMINE ; REACH No. : 01-2119471486-30 ; EC No. : 205-411-0 ; CAS No. : 140-31-8  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412  
2-METHYL-1,5-PENTANEDIAMINE ; REACH No. : 01-2119976310-41 ; EC No. : 239-556-6 ; CAS No. : 15520-10-2  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332  
4,4'-ISOPROPYLIDENEDIPHENOL ; REACH No. : 01-211945856-23 ; EC No. : 201-245-8 ; CAS No. : 80-05-7  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Repr. 1B ; H360F Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411  
NONYLPHENOLE ; REACH No. : 01-2119510715-45 ; EC No. : 284-325-5 ; CAS No. : 84852-15-3  
Weight fraction :  $\geq 2,5 - < 10 \%$   
Classification 1272/2008 [CLP] : Repr. 2 ; H361fd Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

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

4-TERT-BUTYLPHENOL ; REACH No. : 01-2119489419-21 ; EC No. : 202-679-0 ; CAS No. : 98-54-4  
4,4'-ISOPROPYLIDENEDIPHENOL ; REACH No. : 01-211945856-23 ; EC No. : 201-245-8 ; CAS No. : 80-05-7  
NONYLPHENOLE ; REACH No. : 01-2119510715-45 ; EC No. : 284-325-5 ; CAS No. : 84852-15-3

#### Additional information

Full text of H- and EUH-phrases: 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 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.

#### **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. 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**

#### **Effects**

After eye contact  
Causes serious eye damage.

In case of skin contact  
Irritating to skin. May cause an allergic skin reaction.

### **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**

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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 : 20-06-2019

#### 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 (maximum wearing 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 (EN 14387) Filtering device (DIN EN 147) Full-/half-/quarter-face masks (DIN EN 136/140) Filtering Half-face mask (DIN EN 149) Particle filter device (DIN 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

#### Product related measures to prevent exposure

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Further information: see technical data sheet.

#### Instructional measures to prevent exposure

Further information: see technical data sheet.

#### Organisational measures to prevent exposure

Further information: see technical data sheet.

#### Technical measures to prevent exposure

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

Melting point/freezing point :				not applicable
Initial boiling point and boiling range :	( 1013 hPa )			No data available
Decomposition temperature :				No data available
Flash point :		>	100 °C	DIN 53213-1
Auto-ignition temperature :				No data available
Evaporation rate :		<	1	
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.
Vapour pressure :	( 50 °C )	<	1000 hPa	
Relative vapour density :				No data available
Relative density :	( 20 °C )	approx.	1,3 g/cm <sup>3</sup>	DIN 53217
Water solubility :	( 20 °C )			practically insoluble
Partition coefficient n-octanol/water :				No data available
pH :				6 - 8
Viscosity :	( 20 °C )			not applicable
Cinematic viscosity :	( 40 °C )			No data available
Odour threshold :				No data available

#### 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.

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### 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

No information available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

#### Acute toxicity

##### Acute oral toxicity

Parameter :	LD50 ( M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1200 mg/kg
Parameter :	LD50 ( 4-TERT-BUTYLPHENOL ; CAS No. : 98-54-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	2951 mg/kg
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 ( 2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1470 mg/kg
Parameter :	LD50 ( NONYLPHENOLE ; CAS No. : 84852-15-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1900 mg/kg

Harmful by inhalation and if swallowed.

##### 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 ( 4-TERT-BUTYLPHENOL ; CAS No. : 98-54-4 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2288 mg/kg
Parameter :	LD50 ( 2-PIPERAZIN-1-YLETHYLAMINE ; CAS No. : 140-31-8 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	880 mg/kg

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Parameter : LD50 ( NONYLPHENOLE ; CAS No. : 84852-15-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2140 mg/kg

#### Acute inhalation toxicity

Parameter : LC50 ( M-PHENYLENEBIS(METHYLAMINE) ; CAS No. : 1477-55-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 2,4 mg/l  
Exposure time : 4 h

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

#### Corrosion

##### Skin corrosion/irritation

Irritating to skin.

##### Serious eye damage/eye irritation

Causes serious eye damage.

#### 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

May cause an allergic skin reaction.

##### 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.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Reproductive toxicity

##### Assessment/classification

May damage fertility or the unborn child. Repr. 1A Repr. 2

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.

#### Aquatic toxicity

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

#### Sediment toxicity

##### Toxicity to soil macroorganisms

##### Acute earthworm toxicity

##### Chronical earthworm toxicity (reproduction)

##### Long-term toxicity of organisms living in the sediment

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

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## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Other adverse effects

No information available.

## 12.7 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

#### Product/Packaging disposal

Do not allow to enter into surface water or drains.

#### Waste treatment options

##### Appropriate disposal / Product

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

##### Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number

UN 3082

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 4-TERT-BUTYLPHENOL · NONYLPHENOLE )

#### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 4-TERT-BUTYLPHENOL · REACTION PRODUCTS OF FORMALDEHYDE WITH 1,3-BENZENEDIMETHANAMINE AND 4-TERT-BUTYLPHENOL · 4,4'-ISOPROPYLIDENEDIPHENOL · NONYLPHENOLE )

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 4-TERT-BUTYLPHENOL · NONYLPHENOLE )

### 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 l · 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 l · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)

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Hazard label(s) :



Air transport (ICAO-TI / IATA-DGR)

Class(es) :

9

Special provisions :

E 1 · IATA : - (SP A197 <= 5 l/kg)

Hazard label(s) :



## 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

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

National regulations

REACH-Regulation(1907/2006) Annex XVII [RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES] 3

Directive 2004/42/EC is not applicable.

MAL code number according to Executive Order no. 301 from 13 May 1993 on the determination of code numbers (The Danish Working Environment Service)

MAL code number 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. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients · 08. Occupational exposure limit values · 14. UN proper shipping name - Sea transport (IMDG) · 15. Restrictions on use

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## 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 = Predictable 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 1272/2008 [CLP]

No information available.

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

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360F	May damage fertility.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## 16.6 Training advice

The regulations of the national employment safety and employment protection commission about the handling for

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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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