

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ARC CS4(E) Part A

Revision date: 13.07.2018

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

##### 1.1. Product identifier

ARC CS4(E) Part A

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

###### Use of the substance/mixture

ARC Polymer Composite. To be mixed with ARC CS4 (Part B) to provide protection to concrete in acid exposure environment.

###### Uses advised against

No information available.

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

|                          |                               |                               |
|--------------------------|-------------------------------|-------------------------------|
| Company name:            | Chesterton International GmbH |                               |
| Street:                  | Am Lenzenfleck 23             |                               |
| Place:                   | DE-85737 Ismaning GERMANY     |                               |
| Telephone:               | +49 89 99 65 46 - 0           | Telefax: +49 89 99 65 46 - 50 |
| e-mail:                  | eu-sds@chesterton.com         |                               |
| e-mail (Contact person): | eu-sds@chesterton.com         |                               |
| Internet:                | www.chesterton.com            |                               |
| Responsible Department:  | eu-sds@chesterton.com         |                               |

##### 1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

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

###### Hazard components for labelling

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

Phenol, polymer with formaldehyde, glycidether

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Signal word:** Warning

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#### Pictograms:



#### Hazard statements

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

#### Precautionary statements

- P260 Do not breathe vapour/aerosol.  
 P264 Wash hands thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.

#### 2.3. Other hazards

The safety and health hazards are detailed separately for Part A and Part B. The final cured material is considered nonhazardous. Upon machining, refer to the precautions in the safety data sheets for Part A and Part B.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No     | Chemical name  |              |                  | Quantity    |
|------------|--|--------------|------------------|-------------|
|            | EC No  | Index No     | REACH No         |             |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                      |              |                  |             |
| 9003-36-5  | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol |              |                  | 45 - < 50 % |
|            | 500-006-8  |              | 01-2119454392-40 |             |
|            | Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411                       |              |                  |             |
| 28064-14-4 | Phenol, polymer with formaldehyde, glycidether                                       |              |                  | 15-20 %     |
|            | 608-164-0  |              |                  |             |
|            | Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411                       |              |                  |             |
| 68609-97-2 | oxirane, mono[[C12-14-alkyloxy)methyl] derivs.                                       |              |                  | 5 - < 10 %  |
|            | 271-846-8  | 603-103-00-4 | 01-2119485289-22 |             |
|            | Skin Irrit. 2, Skin Sens. 1; H315 H317   |              |                  |             |

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

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#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### **General information**

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

###### **After inhalation**

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

###### **After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.

Do not wash with: Solvents/Thinner

###### **After contact with eyes**

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

###### **After ingestion**

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

Do NOT induce vomiting.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). alcohol resistant foam. Water spray jet

###### **Unsuitable extinguishing media**

Full water jet

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

Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>)

##### 5.3. Advice for firefighters

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

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

###### **Additional information**

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

#### SECTION 6: Accidental release measures

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

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

#### **6.2. Environmental precautions**

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

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

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

#### **6.4. Reference to other sections**

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

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

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

See section 8.  
Wear personal protection equipment (refer to section 8).  
Do not breathe vapour/aerosol.  
Avoid contact with skin, eyes and clothes.

##### **Advice on protection against fire and explosion**

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

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

##### **Requirements for storage rooms and vessels**

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

##### **Further information on storage conditions**

Keep away from:  
Frost  
Heat  
Humidity

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

No information available.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

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#### DNEL/DMEL values

| CAS No                   | Substance  |          |                           |
|--------------------------|--|----------|---------------------------|
| DNEL type                | Exposure route   | Effect   | Value                     |
| 9003-36-5                | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol |          |                           |
| Worker DNEL, long-term   | inhalation   | systemic | 29,39 mg/m <sup>3</sup>   |
| Worker DNEL, long-term   | dermal   | systemic | 104,15 mg/kg bw/day       |
| Worker DNEL, acute       | dermal   | local    | 0,0083 mg/cm <sup>2</sup> |
| Consumer DNEL, long-term | inhalation   | systemic | 8,7 mg/m <sup>3</sup>     |
| Consumer DNEL, long-term | dermal   | systemic | 62,5 mg/kg bw/day         |
| Consumer DNEL, long-term | oral   | systemic | 6,25 mg/kg bw/day         |
| 68609-97-2               | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.                                       |          |                           |
| Worker DNEL, long-term   | inhalation   | systemic | 3,6 mg/m <sup>3</sup>     |
| Worker DNEL, long-term   | dermal   | systemic | 1 mg/kg bw/day            |
| Consumer DNEL, long-term | inhalation   | systemic | 0,87 mg/m <sup>3</sup>    |
| Consumer DNEL, long-term | dermal   | systemic | 0,5 mg/kg bw/day          |
| Consumer DNEL, long-term | oral   | systemic | 0,5 mg/kg bw/day          |

#### PNEC values

| CAS No   | Substance  |  |
|--|--|--|
| Environmental compartment                        | Value  |  |
| 9003-36-5  | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol |  |
| Freshwater                                       | 0,003 mg/l   |  |
| Freshwater sediment                              | 0,294 mg/kg  |  |
| Marine sediment                                  | 0,029 mg/kg  |  |
| Soil   | 0,237 mg/kg  |  |
| 68609-97-2                                       | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.                                       |  |
| Freshwater                                       | 0,106 mg/l   |  |
| Freshwater (intermittent releases)               | 0,072 mg/l   |  |
| Marine water                                     | 0,011 mg/l   |  |
| Freshwater sediment                              | 307,16 mg/kg   |  |
| Marine sediment                                  | 30,72 mg/kg  |  |
| Micro-organisms in sewage treatment plants (STP) | 10 mg/l  |  |
| Soil   | 1,234 mg/kg  |  |

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#### **8.2. Exposure controls**

##### **Appropriate engineering controls**

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

##### **Protective and hygiene measures**

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

##### **Eye/face protection**

Suitable eye protection:

Eye glasses with side protection

goggles

##### **Hand protection**

Tested protective gloves must be worn: DIN EN 374

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

Thickness of the glove material  $\geq 0,4$  mm

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

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Observe the wear time limits as specified by the manufacturer.

##### **Skin protection**

Protective clothing

##### **Respiratory protection**

Usually no personal respirative protection necessary.

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

Combination filtering device (EN 14387) A-P3

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

### SECTION 9: Physical and chemical properties

#### **9.1. Information on basic physical and chemical properties**

|                 |                |                |
|-----------------|----------------|----------------|
| Physical state: | Liquid         |                |
| Colour:         | red            |                |
| Odour:          | characteristic |                |
| pH-Value:       |                | not determined |

##### **Changes in the physical state**

|  |  |                           |
|--|--|---------------------------|
| Melting point:                           |  | not determined            |
| Initial boiling point and boiling range: |  | not determined            |
| Flash point:                             |  | 122 °C                    |
| Sustaining combustion:                   |  | Not sustaining combustion |

##### **Flammability**

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Solid: not determined  
Gas: not determined

#### **Explosive properties**

No information available.

Lower explosion limits: not applicable  
Upper explosion limits: not applicable  
Ignition temperature: not determined

#### **Auto-ignition temperature**

Solid: not determined  
Gas: not determined

Decomposition temperature: not determined

#### **Oxidizing properties**

No information available.

Vapour pressure: not determined

Density: ~1,35 g/cm<sup>3</sup>

Water solubility: Immiscible

#### **Solubility in other solvents**

No information available.

Partition coefficient: not determined

Viscosity / dynamic:  
(at 23 °C) ~5000 mPa·s

Vapour density: not determined

Evaporation rate: not determined

#### **9.2. Other information**

No information available.

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

#### **10.2. Chemical stability**

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

#### **10.3. Possibility of hazardous reactions**

Exothermic reaction with: Acid, Oxidising agent

#### **10.4. Conditions to avoid**

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

#### **10.5. Incompatible materials**

Acid, Oxidising agent

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#### **10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

### SECTION 11: Toxicological information

#### **11.1. Information on toxicological effects**

##### **Acute toxicity**

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

| CAS No     | Chemical name  |                   |         |                     |  |
|------------|--|-------------------|---------|---------------------|--|
|            | Exposure route   | Dose              | Species | Source              | Method                                   |
| 9003-36-5  | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol |                   |         |                     |  |
|            | oral   | LD50 > 5000 mg/kg | Rat     | Study report (1988) | OECD Guideline 401                       |
|            | dermal   | LD50 > 2000 mg/kg | Rat     | Study report (1988) | OECD Guideline 402                       |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.                                       |                   |         |                     |  |
|            | oral   | LD50 > 2000 mg/kg | Rat     | Study report (1977) | Three groups each of four female rats re |

##### **Irritation and corrosivity**

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

##### **Sensitising effects**

May cause an allergic skin reaction. (Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; Phenol, polymer with formaldehyde, glycidether; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

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

##### **STOT-single exposure**

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

##### **STOT-repeated exposure**

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

##### **Aspiration hazard**

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

### SECTION 12: Ecological information

#### **12.1. Toxicity**



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| CAS No     | Chemical name  |                  |           |                                 |                     |                    |
|------------|--|------------------|-----------|---------------------------------|---------------------|--------------------|
|            | Aquatic toxicity   | Dose             | [h]   [d] | Species                         | Source              | Method             |
| 9003-36-5  | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol |                  |           |                                 |                     |                    |
|            | Acute fish toxicity  | LC50 > 1000 mg/l | 96 h      | Oncorhynchus mykiss             | Study report (1998) | OECD Guideline 203 |
|            | Acute algae toxicity   | ErC50 > 1,8 mg/l | 72 h      | Pseudokirchneriella subcapitata | Study report (1993) | OECD Guideline 201 |
|            | Acute crustacea toxicity   | EC50 > 1000 mg/l | 48 h      | Daphnia magna                   | Study report (1998) | OECD Guideline 202 |
|            | Crustacea toxicity   | NOEC 0,3 mg/l    | 21 d      | Daphnia magna                   | Study report (1984) | OECD Guideline 211 |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.                                       |                  |           |                                 |                     |                    |
|            | Acute fish toxicity  | LC50 > 5000 mg/l | 96 h      | Oncorhynchus mykiss             | Study report (2006) | OECD Guideline 203 |
|            | Crustacea toxicity   | NOEC 56 mg/l     | 21 d      | Daphnia magna                   | (2017)              | OECD Guideline 211 |

#### **12.2. Persistence and degradability**

No information available.

#### **12.3. Bioaccumulative potential**

##### **Partition coefficient n-octanol/water**

| CAS No     | Chemical name  | Log Pow |
|------------|--|---------|
| 9003-36-5  | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 2,7     |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.                                       | 3,77    |

#### **BCF**

| CAS No     | Chemical name  | BCF    | Species | Source               |
|------------|--|--------|---------|----------------------|
| 9003-36-5  | Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 150    |         | Other company data ( |
| 68609-97-2 | oxirane, mono[(C12-14-alkyloxy)methyl] derivs.                                       | >= 160 |         | REACH Registration D |

#### **12.4. Mobility in soil**

No information available.

#### **12.5. Results of PBT and vPvB assessment**

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

#### **12.6. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

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#### Advice on disposal

Dispose of waste according to applicable legislation.

#### Contaminated packaging

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

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | UN 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(epoxy resin) |
| <b>14.3. Transport hazard class(es):</b> | 9  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 9  |
| Classification code:                     | M6   |
| Special Provisions:                      | 274 335 375 601  |
| Limited quantity:                        | 5 L  |
| Excepted quantity:                       | E1   |
| Transport category:                      | 3  |
| Hazard No:                               | 90   |
| Tunnel restriction code:                 | -  |

#### Inland waterways transport (ADN)

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | UN 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(epoxy resin) |
| <b>14.3. Transport hazard class(es):</b> | 9  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 9  |
| Classification code:                     | M6   |
| Special Provisions:                      | 274 335 375 601  |
| Limited quantity:                        | 5 L  |
| Excepted quantity:                       | E1   |

#### Marine transport (IMDG)

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | UN 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(epoxy resin) |
| <b>14.3. Transport hazard class(es):</b> | 9  |
| <b>14.4. Packing group:</b>              | III  |
| Hazard label:                            | 9  |
| Marine pollutant:                        | P  |
| Special Provisions:                      | 274, 335, 969  |

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Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-F

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

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(epoxy resin)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9  
Special Provisions: A97 A158 A197  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y964  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 964  
IATA-max. quantity - Passenger: 450 L  
IATA-packing instructions - Cargo: 964  
IATA-max. quantity - Cargo: 450 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes  
Danger releasing substance: epoxy resin

#### 14.6. Special precautions for user

No information available.

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

No information available.

### SECTION 15: Regulatory information

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

##### National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

#### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:  
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol  
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

### SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effect concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Skin Irrit. 2; H315     | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| Aquatic Chronic 2; H411 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

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

#### Further Information

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself.  
No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose.  
The user must make their own determination as to suitability.

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