according to Regulation (EC) No 1907/2006

## 5 min.-epoxy (hardener)

Revision date: 17.11.2017 Product code: 155110 Page 1 of 7

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

### 1.1. Product identifier

5 min.-epoxy (hardener)

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

## Use of the substance/mixture

Hardener (Crosslinker)

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

Company name: R&G Faserverbundwerkstoffe GmbH

Composite Technology

Street: Im Meißel 7 - 13
Place: D-71111 Waldenbuch

Post-office box: 1145

D-71107 Waldenbuch

Telephone: +49 (0)7157 5304-60 Telefax: +49 (0)7157 5304-70

e-mail: info@r-g.de
Internet: www.r-g.de
Responsible Department: Management

**1.4. Emergency telephone** Vergiftungs-Informations-Zentrale Freiburg

**number:** Tel: +49 (0)761 19240

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements: Causes skin irritation. Causes serious eye irritation.

### 2.2. Label elements

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

## Hazard components for labelling

2,4,6-tris(dimethylaminomethyl)phenol

Signal word: Warning

Pictograms:



### **Hazard statements**

H319 Causes serious eye irritation. H315 Causes skin irritation.

#### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P332+P313 If skin irritation occurs: 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

according to Regulation (EC) No 1907/2006

## 5 min.-epoxy (hardener)

Revision date: 17.11.2017 Product code: 155110 Page 2 of 7

### 2.3. Other hazards

No information available.

# **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]				
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	202-013-9	603-069-00-0			
	Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H302 H319 H315				

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

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

Remove contaminated clothing immediately.

#### After inhalation

consult a doctor.

### After contact with skin

Immediately with water and soap and rinse thoroughly. If skin irritation occurs.

## 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

Seek medical advice immediately.

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

The product does not contain any relevant quantities of substances with workplace-related limit values to be monitored.

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

No information available.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Carbon dioxide (CO2), Extinguishing powder, Water spray jet.

Fight major fires with a water spray jet or alcohol-resistant foam.

## Unsuitable extinguishing media

Full water jet

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

In case of fire may be liberated: Gases/vapours, toxic.

# 5.3. Advice for firefighters

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

### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

according to Regulation (EC) No 1907/2006

# 5 min.-epoxy (hardener)

Revision date: 17.11.2017 Product code: 155110 Page 3 of 7

Do not allow entering drains or surface water.

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

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

Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter the soil or subsoil. Dilute with plenty of water.

### 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

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

## 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation/vapour extraction at the workplace.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

## Requirements for storage rooms and vessels

Keep/Store only in original container.

## Advice on storage compatibility

Store separately from foodstuffs.

# Further information on storage conditions

Keep receptacles tightly sealed.

## 7.3. Specific end use(s)

Hardener (Crosslinker)

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

## 8.1. Control parameters

# 8.2. Exposure controls





### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

## Eye/face protection

Suitable eye protection: goggles.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four

according to Regulation (EC) No 1907/2006

## 5 min.-epoxy (hardener)

Revision date: 17.11.2017 Product code: 155110 Page 4 of 7

control digits. 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. 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.

Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber)

Thickness of the glove material: > 0,5mm

#### Skin protection

Wear suitable protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filtering device (DIN EN 147) P2

### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: light yellow
Odour: rotten eggs

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined Initial boiling point and boiling range:  $> 100 \,^{\circ}\text{C}$  Flash point:  $> 90 \,^{\circ}\text{C} \,^{\circ}\text{C}$ 

**Flammability** 

Solid: not applicable
Gas: not applicable

**Explosive properties** 

not explosive.

Lower explosion limits: not determined Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 1,13 g/cm³ ISO 2811-2

Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: 10000 - 16000 mPa·s ISO 3219

(at 25 °C)

Vapour density: not determined Evaporation rate: not determined

9.2. Other information

according to Regulation (EC) No 1907/2006

## 5 min.-epoxy (hardener)

Revision date: 17.11.2017 Product code: 155110 Page 5 of 7

Solid content: not determined

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

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent

### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

Oxidising agent

### 10.6. Hazardous decomposition products

Gases/vapours. toxic

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

**ATEmix tested** 

Dose

Species

Source

LD50, oral

1200 mg/kg

rat

### **Acute toxicity**

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol						
	oral	ATE 500 mg/kg					

## **SECTION 12: Ecological information**

### 12.1. Toxicity

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

### 12.2. Persistence and degradability

The product has not been tested.

## 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

No special environmental measures are necessary.

Print date: 19.03.2018

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## 5 min.-epoxy (hardener)

Revision date: 17.11.2017 Product code: 155110 Page 6 of 7

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not

otherwise specified

### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

# 14.6. Special precautions for user

No information available.

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

not applicable

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

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

### **EU regulatory information**

2004/42/EC (VOC): 19 % (214,7 g/l)

National regulatory information

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

work protection guideline' (94/33/EC).

Water contaminating class (D): 1 - slightly water contaminating

## 15.2. Chemical safety assessment

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

#### **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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

according to Regulation (EC) No 1907/2006

# 5 min.-epoxy (hardener)

Revision date: 17.11.2017 Product code: 155110 Page 7 of 7

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eve irritation.

#### **Further Information**

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

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