

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

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

### 1.1 Product identifier

Renofix Groen - Component A (220070510A)

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

Solventfree two component impregnating agent 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 10 - Roller application or brushing

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 11 - Wood 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) :** Renovaid B.V.

**Street :** De Slof 30A

**Postal code/City :** 5107 RJ DONGEN

**Telephone :** 0162-764188

**Information contact :** info@renovaid.nl

### 1.4 Emergency telephone number

NL: +31(0)302748888 / BE: +32(0)70245245 (antigif centrum/centre antipoisons)

European emergency number: 112. The Netherlands: National Poison Information Centre (+31 88 755 8000), only for the purpose of informing medical personnel in cases of acute intoxications.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

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

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

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

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

### 2.2 Label elements

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

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

### Hazard pictograms



Environment (GHS09) - Exclamation mark (GHS07)

### Signal word

Warning

### Hazard components for labelling

BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW  $\leq$  700 ; CAS No. : 9003-36-5  
REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-(CHLOROMETHYL)OXIRANE ; CAS No. : 933999-84-9  
BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE ; CAS No. : 1675-54-3

### Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

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.  
P321 Specific treatment (see supplemental first aid instructions on this label).

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

EUH205 Contains epoxy constituents. May produce an allergic reaction.

## 2.3 Other hazards

### Adverse human health effects and symptoms

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

### Adverse environmental effects

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

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

Weight fraction :  $\geq$  45 - < 50 %

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 :  $\geq$  25 - < 30 %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

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

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

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

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

**Additional information**

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

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

#### Following inhalation

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

#### In case of skin contact

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

#### After eye contact

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

#### Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Keep at rest.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam

#### Unsuitable extinguishing media

Water spray jet

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

Burning produces heavy smoke. Use suitable breathing apparatus.

#### Hazardous combustion products

Carbon monoxide

### 5.3 Advice for firefighters

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

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

### 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.

#### 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

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

Keep away from:

#### Further information on storage conditions

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

#### 7.3 Specific end use(s)

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

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### DNEL-/PNEC-values

###### DNEL/DMEL

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

Limit value type :	DNEL worker (local)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	8,3 $\mu\text{g}/\text{cm}^2$
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	29,39 $\text{mg}/\text{m}^3$
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	104,15 $\text{mg}/\text{m}^3$ bw/day

#### 8.2 Exposure controls

##### Personal protection equipment



##### Eye/face protection

###### Suitable eye protection

Eye glasses with side protection

##### Skin protection

###### Hand protection

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

**Suitable gloves type :** Disposable gloves.

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

**Required properties :** liquid-tight.

**Breakthrough time :** > 60 minutes

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

**Recommended glove articles :** EN 374

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

**Remark :** For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

substances. Observe the wear time limits as specified by the manufacturer. Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Barrier creams are not substitutes for body protection.

#### Body protection

Remark : Body protection: not required.

#### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

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

#### Suitable respiratory protection apparatus

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

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

#### Additional measures for respiratory protection

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

#### Remark

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

#### General information

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

#### Other protection measures

Further information: see technical data sheet.

Further information: see technical data sheet.

Further information: see technical data sheet.

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

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Liquid

#### Appearance

Colour : green

#### Odour

characteristic

#### Safety characteristics

Flash point :	>	150 °C	DIN 53213-1
Evaporation rate :	<	1	
Vapour pressure :	( 50 °C )	<	1000 hPa
Relative density :	( 20 °C )	approx.	1,15 g/cm <sup>3</sup> DIN 53217
Viscosity :	( 20 °C )	approx.	600 mPa*s

# Safety Data Sheet

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



Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

Melting point/freezing point : not applicable  
Initial boiling point and boiling range : No data available  
Decomposition temperature : No data available  
Auto-ignition temperature : No data available  
Flammable gases : Not applicable.  
Flammable solids : Not applicable.  
Oxidising properties. : No data available.  
Lower explosion limit : No data available  
Upper explosion limit : No data available  
Explosive properties : No data available.  
Relative vapour density : No data available  
Water solubility : practically insoluble  
Partition coefficient n-octanol/water : No data available  
pH : No data available  
Flow time : not determined  
Cinematic viscosity : No data available  
Odour threshold : No data available  
- BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700; CAS No. : 9003-36-5  
Initial boiling point and boiling range : ( 1000 hPa ) 90 °C

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Ignition hazard.

### 10.5 Incompatible materials

Exothermic reaction with: Amines.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

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

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( 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 )

# Safety Data Sheet

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



Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

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 ( 2,3-EPOXYPROPYL NEODECANOATE ; CAS No. : 26761-45-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 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 ( 2,3-EPOXYPROPYL NEODECANOATE ; CAS No. : 26761-45-5 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg

### 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

#### Practical experience/human evidence

Causes skin irritation. Causes serious eye irritation.

### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.

#### Aquatic toxicity

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

Parameter : Acute (short-term) fish toxicity ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN



# Safety Data Sheet

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



Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

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

## 12.2 Persistence and degradability

### Biodegradation

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

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

### 12.8 Additional ecotoxicological information

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

No information available.

## SECTION 14: Transport information

### 14.1 UN number or ID number

UN 3082

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

#### 14.2 UN proper shipping name

##### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 · BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE )

##### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 · BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE )

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( BISPHENOL F-(EPICHLORHYDRIN); EPOXY RESIN MW <= 700 · BIS-[4-(2,3-EPOXIPROPOXI)PHENYL]PROPANE )

#### 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)  
Hazard label(s) : 9 / N

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

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

#### 14.4 Packing group

III

#### 14.5 Environmental hazards

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

#### 14.6 Special precautions for user

None

### SECTION 15: Regulatory information

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

##### EU legislation

###### Authorisations and/or restrictions on use

###### Restrictions on use

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

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

##### National regulations

EU limit value for this product (cat. A/j): 500 g/l (2010).This product contains max: 500 g/l

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

Trade name : Renofix Groen - Component A  
Revision date : 04.01.2025  
Print date : 25-01-2025

Version (Revision) : 7.0.0 (6.0.0)

## 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 · 04. Effects · 11. Skin corrosion/irritation · 11. Serious eye damage/eye irritation · 11. Respiratory or skin sensitisation - Skin sensitisation · 12. Aquatic toxicity

### 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)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
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.

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



Trade name : Renofix Groen - Component A  
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**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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