

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

1.1 Product identifierTrade name: **FE-Imprägnierung Komponente A****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

Two-component reactive plastic based on epoxy resin, resin impregnation

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

Knauf Gips KG

Postfach 10

97343 Iphofen

Germany

Tel +49 (0)9323/31-0

Fax +49 (0)9323/31-277

Further information obtainable from:

Technical information service

Tel +49 (0)9001/31-1000 (see point 16)

E-mail Knauf-Direkt@Knauf.de

1.4 Emergency telephone number:

Hotline for symptoms of poisoning and embryonic toxicology, Berlin

Tel +49 (0)30-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R68: Possible risk of irreversible effects.



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xn Harmful

N Dangerous for the environment

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according to 1907/2006/EC, Article 31

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Trade name: FE-Imprägnierung Komponente A

Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)

Bisphenol-F-Epoxidharz

neodecansäureglycidylester

1,6-Hexandiol-diglycidylether

Risk phrases:

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

68 Possible risk of irreversible effects.

Safety phrases:

2 Keep out of the reach of children.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

57 Use appropriate container to avoid environmental contamination.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

36/37 Wear suitable protective clothing and gloves.

Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700) 50-60%
 NLP: 500-033-5

Xi R36/38; Xi R43; N R51/53

Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317

CAS: 9003-36-5 Bisphenol-F-Epoxidharz 10-25%

Xi R36/38; Xi R43; N R51/53

Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317

CAS: 16096-31-4 1,6-Hexandiol-diglycidylether 5-10%

EINECS: 240-260-4 Xi R36/38; Xi R43
R52/53

Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412

CAS: 26761-45-5 neodecansäureglycidylester 5-15%

EINECS: 247-979-2 Xi R38; Xi R43; N R51/53

Acute Tox. 3, H331; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317

Additional information: For the wording of the listed risk phrases refer to section 16.

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Trade name: FE-Imprägnierung Komponente A

* **SECTION 4: First aid measures**

4.1 Description of first aid measures**General information:**

Immediately remove all soiled and contaminated clothing
If symptoms occur, or if in any doubt, seek the advice of a doctor.

After inhalation:

Supply fresh air.
Take affected persons into fresh air and keep quiet.
In case of irregular breathing or respiratory arrest provide artificial respiration.
In case of unconsciousness place patient stably in side position for transportation.
Seek medical treatment.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.
Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:

Rinse out mouth and then drink plenty of water.
Do not induce vomiting.
Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

After eye contact: Irritating to eyes.
After skin contact: Irritating to skin. May cause sensitization by skin contact.
After swallowing: Irritating to mouth, throat and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.

Additional information

Suppress gases/fumes/haze with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.

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Keep ignition sources away - Do not smoke.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Inform respective authorities in case of seepage into water course or sewage system.

In case of seepage into the ground inform responsible authorities.

6.3 Methods and material for containment and cleaning up:

Take up using liquid-absorbent materials (sand, kieselguhr, acidic binding material, universal binding material).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage
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7.1 Precautions for safe handling

With open handling, always use equipment with local suction.

Do not inhale the gas / smoke / vapour / aerosol.

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

Keep ignition sources away - Do not smoke.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

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Trade name: FE-Imprägnierung Komponente A**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves Butyl rubber, BR

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Gloves should be removed and changed immediately in case of decomposition or chemical permeability.

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

Safety shoes

Limitation and supervision of exposure into the environment

Do not allow to enter sewers/ surface or ground water.

Do not allow to enter waters or ground.

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SECTION 9: Physical and chemical properties
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9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Fluid
Colour:	transparent
Odour:	Weak.
Odour threshold:	Not determined.
pH-value:	Undetermined.

Change in condition

Melting point/Melting range:	Not applicable.
Boiling point/Boiling range:	200 °C

Flash point: 130 °C

Flammability (solid, gaseous): Not determined.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Self-igniting: Not determined.

Danger of explosion: Not determined.

Vapour pressure: Not determined.

Density at 25 °C: ~ 1.03 g/cm³

Relative density Not determined.

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Trade name: FE-Imprägnierung Komponente A

Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 25 °C:	800-1000 mPas
Kinematic:	Not determined.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:**

Strong acids, strong alkaline solutions.

Strong oxidation agents.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information
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11.1 Information on toxicological effects**Acute toxicity:****LD/LC50 values relevant for classification:****CAS: 26761-45-5 neodecansäureglycidylester**

Oral LD50 9600 mg/kg (rat)

Dermal LD50 3800 mg/kg (rat)

Inhalative LC50/4 h >5 mg/l (rat)

CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat)

CAS: 9003-36-5 Bisphenol-F-Epoxidharz

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat)

CAS: 16096-31-4 1,6-Hexandiol-diglycidylether

Oral LD50 8500 mg/kg (rat)

Dermal LD50 > 4900 mg/kg (rabbit)

Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:**

Sensitization possible through skin contact.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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Trade name: FE-Imprägnierung Komponente A**Additional toxicological information:**

Ingestion could cause irritation in the mouth, pharynx, oesophagus and gastrointestinal tract.

*** SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)**

LC50/96h 1.5 mg/l (fish)

CAS: 9003-36-5 Bisphenol-F-Epoxidharz

LC50/96h 0.55 mg/l (fish)

CAS: 26761-45-5 neodecansäureglycidylester

EC50/48h 3.5 mg/l (daphnia)

ErC50 1-10 mg/l (sel)

LC50/96h 1-10 mg/l (fish)

CAS: 16096-31-4 1,6-Hexandiol-diglycidylether

LC50/96h 30 mg/l (fish)

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Do not allow product to reach ground water, water course or sewage system.

Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information**14.1 UN-Number****ADR**

UN3082

14.2 UN proper shipping name**ADR**3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)

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Trade name: FE-Imprägnierung Komponente A**14.3 Transport hazard class(es)**

ADR



Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group	
ADR	III
14.5 Environmental hazards:	Dangerous for the environment: yes
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Danger code (Kemler):	90
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	LQ7
Transport category	3
Tunnel restriction code	E
Remarks:	Classification code: M6 Special provisions: 274 335 601 Excepted quantities: E1

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Waterhazard class: Water hazard class 2 (VwVwS Germany 17.05.1999): hazardous for water.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

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Trade name: FE-Imprägnierung Komponente A

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS: Knauf Gips KG, Abteilung Nachhaltigkeit und REACH, 97343 Iphofen
Contact:

Technical information service (see point 1)

A call to Knauf Direkt will be charged at 0.39 € per minute. Callers, the telephone numbers of whom are not saved in the Knauf Gips KG address database, e.g. private property owners or non-customers, will pay 1.69 € per minute from the German network. Callers using mobile telephones will be charged according to the network provider and tariff.

Sources

For the safe handling of epoxy resins and hardeners we recommend as matter of principle compliance with the following data sheets: BG regulation "Working with epoxy resins" (BGR* 227).

*[Employer's Liability Insurance Association Regulation] (Publisher: Chemical Industry Employer's Liability Insurance Association).

* **Data compared to the previous version altered.**

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according to 1907/2006/EC, Article 31



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Revision: 27.03.2013

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

1.1 Product identifier**Trade name: FE-Imprägnierung Komponente B****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

Two-component reactive plastic based on epoxy resin, hardening compound impregnation

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

Knauf Gips KG

Postfach 10

97343 Iphofen

Germany

Tel +49 (0)9323/31-0

Fax +49 (0)9323/31-277

Further information obtainable from:

Technical information service

Tel +49 (0)9001/31-1000 (see point 16)

E-mail Knauf-Direkt@Knauf.de

1.4 Emergency telephone number:

Hotline for symptoms of poisoning and embryonic toxicology, Berlin

Tel +49 (0)30-19240

* **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

C; Corrosive

R34: Causes burns.



Xn; Harmful

R21/22: Harmful in contact with skin and if swallowed.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

C Corrosive

N Dangerous for the environment

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Trade name: FE-Imprägnierung Komponente B

Hazard-determining components of labelling:

m-phenylenebis(methylamine)

Phenol, styrolisiert

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Propylidyntrimethanol propoxylated, reaction product with ammonia

Risk phrases:

21/22 Harmful in contact with skin and if swallowed.

34 Causes burns.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

2 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

57 Use appropriate container to avoid environmental contamination.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Special labelling of certain preparations: Only for professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.






















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SECTION 3: Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 61788-44-1	Phenol, styrolisiert	35-45%
	 Xi R38;  Xi R43;  N R51/53  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 39423-51-3 NLP: 500-105-6	Propylidyntrimethanol propoxylated, reaction product with ammonia	25-35%
	 Xn R21/22;  Xi R41;  N R51/53  Eye Dam. 1, H318;  Aquatic Chronic 2, H411;  Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine)	10-20%
	 C R34;  Xn R22;  Xi R43 R52/53  Skin Corr. 1B, H314;  Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10-15%
	 C R34;  Xn R21/22;  Xi R43 R52/53  Skin Corr. 1B, H314;  Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

Additional information: For the wording of the listed risk phrases refer to section 16.

Remark: Materials with a threshold value for exposure in the workplace – see point 8.

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Trade name: FE-Imprägnierung Komponente B**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove all soiled and contaminated clothing

If symptoms occur, or if in any doubt, seek the advice of a doctor.

After inhalation:

Take affected persons into fresh air and keep quiet.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment.

In case of inhalation of decomposition products take affected persons into fresh air.

In case of inhalation of decomposition products symptoms may be delayed, the patient should be kept under medical review for at least 48 hours.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

Chemical burns must be treated promptly by a physician.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting.

Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

After eye contact: Causes serious eye damage.

After inhalation: Harmful by inhalation. Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

After skin contact: Corrosive to the skin. May cause sensitization by skin contact.

After swallowing: Harmful if swallowed. May cause burns to mouth, throat and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

In case of inhalation of decomposition products symptoms may be delayed, the patient should be kept under medical review for at least 48 hours.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)Nitrogen oxides (NO_x)**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

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Additional information

Suppress gases/fumes/haze with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Keep ignition sources away - Do not smoke.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Inform respective authorities in case of seepage into water course or sewage system.

In case of seepage into the ground inform responsible authorities.

6.3 Methods and material for containment and cleaning up:

Take up using liquid-absorbent materials (sand, kieselguhr, acidic binding material, universal binding material).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas.

Do not inhale the gas / smoke / vapour / aerosol.

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

Keep ignition sources away - Do not smoke.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

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Trade name: FE-Imprägnierung Komponente B**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves Butyl rubber, BR

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Gloves should be removed and changed immediately in case of decomposition or chemical permeability.

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

Safety shoes

Limitation and supervision of exposure into the environment

Do not allow to enter sewers/ surface or ground water.

Do not allow to enter waters or ground.

SECTION 9: Physical and chemical properties
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9.1 Information on basic physical and chemical properties**General Information****Appearance:****Form:**

Fluid

Colour:

Yellowish

Odour:

Amine-like

Odour threshold:

Not determined.

pH-value at 23 °C:

11.5

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Trade name: FE-Imprägnierung Komponente B**Change in condition****Melting point/Melting range:** Not applicable.**Boiling point/Boiling range:** 207 °C**Flash point:** 102 °C**Flammability (solid, gaseous):** Not determined.**Ignition temperature:** 395 °C**Decomposition temperature:** Not determined.**Self-igniting:** Not determined.**Explosion limits:****Lower:** 1 Vol %**Upper:** 10 Vol %**Vapour pressure at 20 °C:** 0.49 hPa**Density at 23 °C:** 1 g/cm³**Relative density** Not determined.**Vapour density** Not determined.**Evaporation rate** Not determined.**Solubility in / Miscibility with****water:** Not determined.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****Dynamic at 25 °C:** 600-800 mPas**Kinematic:** Not determined.**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****CAS: 39423-51-3 Propylidyntrimethanol propoxylated, reaction product with ammonia**

Oral LD50 550 mg/kg (rat)

Dermal LD50 >1000 mg/kg (rat)

CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral LD50 1030 mg/kg (rat)

Dermal ATE 1100 mg/kg

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Trade name: FE-Imprägnierung Komponente B**CAS: 61788-44-1 Phenol, styrolisiert**

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/m³ (rat)

Inhalative LC50 4.9 mg/l (rat)

CAS: 1477-55-0 m-phenylenebis(methylamine)

Oral LD50 930 mg/kg (rat)

Dermal LD50 >3100 mg/kg (rabbit)

Inhalative LC50/4 h 1.34 mg/l (rat)

Primary irritant effect:**on the skin:** Caustic effect on skin and mucous membranes.**Sensitization:** Sensitization possible through skin contact.**Additional toxicological information:** May cause an allergic skin reaction.**Acute effects (acute toxicity, irritation and corrosivity)**

Ingestion: Irritation and corrosion. Hazards: gastric perforation.

*

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****CAS: 61788-44-1 Phenol, styrolisiert**

ErC50/72h 3.14 mg/l (alga)

LC50/96h 14.8 mg/l (fish)

CAS: 39423-51-3 Propylidyntrimethanol propoxylated, reaction product with ammonia

ErC50/72h 4.4 mg/l (alga)

LC50/96h >100 mg/l (fish)

CAS: 1477-55-0 m-phenylenebis(methylamine)

EC50/48h 15.2 mg/l (daphnia)

ErC50/72h 20.3 mg/l (alga)

LC50/96h 87.6 mg/l (fish)

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

Do not allow product to reach ground water, water course or sewage system.

Avoid transfer into the environment.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

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Trade name: FE-Imprägnierung Komponente B**Uncleaned packaging:****Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information
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14.1 UN-Number**ADR**

UN2735

14.2 UN proper shipping name**ADR**

2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S., ENVIRONMENTALLY HAZARDOUS

14.3 Transport hazard class(es)**ADR****Class**

8 Corrosive substances.

Label

8

14.4 Packing group**ADR**

II

14.5 Environmental hazards:

Dangerous for the environment: yes

14.6 Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler):

80

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)**

1L

Transport category

2

Tunnel restriction code

E

Remarks:

Classification code: C7

Excepted quantities: E2

Special provisions: 274

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Waterhazard class: Water hazard class 2 (VwVwS Germany 17.05.1999): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Trade name: FE-Imprägnierung Komponente B**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H302 Harmful if swallowed.
- 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.
- H332 Harmful if inhaled.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS: Knauf Gips KG, Abteilung Nachhaltigkeit und REACH, 97343 Iphofen
Contact:

Technical information service (see point 1)

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Sources

For the safe handling of epoxy resins and hardeners we recommend as matter of principle compliance with the following data sheets: BG regulation "Working with epoxy resins" (BGR* 227).
*[Employer's Liability Insurance Association Regulation] (Publisher: Chemical Industry Employer's Liability Insurance Association).

* **Data compared to the previous version altered.**

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

1.1 Product identifierTrade name: **EPO-Perl****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation: Building material**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Knauf Gips KG

Postfach 10

97343 Iphofen

Germany

Tel +49 (0)9323/31-0

Fax +49 (0)9323/31-277

Further information obtainable from:

Technical information service

Tel +49 (0)9001/31-1000 (see point 16)

E-mail Knauf-Direkt@Knauf.de

1.4 Emergency telephone number:

Hotline for symptoms of poisoning and embryonic toxicology, Berlin

Tel +49 (0)30-19240

* **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.**Information concerning particular hazards for human and environment:**

No hazards to be particularly mentioned.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Additional information:** Void**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

Chemical characterization: Mixtures**Description:** The preparation consists of SiO₂, Na₂O, CaO, MgO, Al₂O₃ and K₂O.**Dangerous components:** Void**Remark:** Materials with a threshold value for exposure in the workplace – see point 8.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:** No special measures required.**After inhalation:** Supply fresh air; consult doctor in case of complaints.

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Trade name: EPO-Perl**After skin contact:** Generally the product does not irritate the skin.**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: No special measures required.**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

5.3 Advice for firefighters**Protective equipment:** No special measures required.**Additional information** The product is not flammable.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

6.2 Environmental precautions: No special measures required.**6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Avoid formation of dust.

6.4 Reference to other sections No dangerous substances are released.**SECTION 7: Handling and storage****7.1 Precautions for safe handling** Prevent formation of dust.**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Requirements to be met by storerooms and receptacles:** No special requirements.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Store in dry conditions.**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Remark A = alveolar fraction, E = inhalable fraction**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Wear dust mask FFP2 if dust forms.**Protection of hands:** Not required.

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Trade name: EPO-Perl

Eye protection: Not required.

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form: Solid
Colour: Grey
Odour: Odourless

pH-value at 20 °C: 7

Change in condition

Melting point/Melting range: c. 750 °C
Boiling point/Boiling range: Not applicable.

Flash point: Not applicable.

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density: 0,3 - 0,6 g/cm³ at 22 °CBulk density: 200-300 kg/m³**Solubility in / Miscibility with**

water: Insoluble.

9.2 Other information No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** None known.**10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability**

Not biodegradable.

Easily removable from water

12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil** No further relevant information available.

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Trade name: EPO-Perl

Additional ecological information:**General notes:**

No environmental problems can be expected if the mixture is handled and applied properly.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Disposal must be made according to official regulations.**European waste catalogue**

17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information**14.1 UN-Number****ADR, IMDG, IATA** Void**14.2 UN proper shipping name****ADR** Void**IMDG, IATA** Void**14.3 Transport hazard class(es)****ADR, IMDG, IATA****Class** Void**14.4 Packing group****ADR, IMDG, IATA** Void**14.5 Environmental hazards:****14.6 Special precautions for user** Not applicable.**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.**UN "Model Regulation":** -**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Waterhazard class:** Generally not hazardous for water.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Knauf Gips KG, Abteilung Nachhaltigkeit und REACH, 97343 Iphofen**Contact:**

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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

* **Data compared to the previous version altered.**