

FE-Imprägnierung Komponente A (neu-Umstellung)

Safety Data Sheet

according to Regulation (EU) 2015/830

Revision date: 2020/03/03 Version: 11.0



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

1.1. Product identifier

Product form : Mixture
Product name : FE-Imprägnierung Komponente A (neu-Umstellung)

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : For professional use only
Use of the substance/mixture : Two-pack reactive performance coatings for specific end use such as floors
Impregnation agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Knauf Gips KG
Am Bahnhof 7
97346 Iphofen - Deutschland
T +49 932331-0 - F +49 932331-277
zentrale@knauf.de - www.knauf.de
E-mail address of competent person responsible for the SDS : sds-info@knauf.de

1.4. Emergency telephone number

No additional information available

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

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) : Warning

Hazardous ingredients : Bisphenol F-epoxy resin; reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2); Bis(4,4'-glycidylxyphenyl) propan

FE-Imprägnierung Komponente A (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

Hazard statements (CLP)	: 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 (CLP)	: P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
EUH-statements	: EUH205 - Contains epoxy constituents. May produce an allergic reaction.
Extra phrases	: MAXIMUM VOC CONTENT LIMIT VALUES FOR PAINTS AND VARNISHES. Product Subcategory: j (Type: SB): 500 g/l VOC content: < 0,5 % (< 5,7 g/l) The product is intended for professional use

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bis(4,4'-glycidyoxyphenyl) propan	(CAS-No.) 1675-54-3 (EC-No.) 216-823-5 (EC Index-No.) 603-073-00-2 (REACH-no) 01-2119456619-26	55 - < 60	Skin Sens. 1, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Bisphenol F-epoxy resin	(CAS-No.) 9003-36-5 (EC-No.) 500-006-8 (REACH-no) 01-2119454392-40	20 -< 25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	(CAS-No.) 933999-84-9 (EC-No.) 618-939-5 (REACH-no) 01-2119463471-41	15 -< 20	Skin Sens. 1, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
3-glycidyoxypropyltrimethoxysilane	(CAS-No.) 2530-83-8 (EC-No.) 219-784-2 (REACH-no) 01-2119513212-58	1 -< 5	Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Bis(4,4'-glycidyoxyphenyl) propan	(CAS-No.) 1675-54-3 (EC-No.) 216-823-5 (EC Index-No.) 603-073-00-2 (REACH-no) 01-2119456619-26	(5 ≤C < 100) Skin Irrit. 2, H315 (5 ≤C < 100) Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Protection for the first aid staff. Move the affected person away from the contaminated area. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
First-aid measures after inhalation	: Remove the victim into fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

FE-Imprägnierung Komponente A (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

First-aid measures after skin contact	: After contact with skin, wash immediately and thoroughly with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth. Drink plenty of water. When in doubt or if symptoms are observed, get medical advice.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO ₂). Foam. extinguishing powder. Adapt extinguishing media to the environment.
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
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5.3. Advice for firefighters

Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing. Full suit.
Other information	: Use water spray to disperse the vapours. Do not dispose of fire-fighting water in the environment. Prevent entry to sewers and public waters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ensure adequate air ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not flush into surface water or sewer system.

6.3. Methods and material for containment and cleaning up

For containment	: Contain the spilled material by bunding.
Methods for cleaning up	: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). For further information refer to section 13.

6.4. Reference to other sections

See Heading 7. See Heading 8. See Heading 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

FE-Imprägnierung Komponente A (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed. Store in a place accessible by authorised persons only. Use appropriate ventilation. Keep only in original container. Store in a dry place.
- Storage temperature : 10 – 30 °C
- Information on mixed storage : TRGS 510: Storage of hazardous substances in non-stationary containers.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Use appropriate ventilation. Do not breathe gas/fumes/vapour/spray.

Hand protection:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves, Long term exposure	Viton	2 (> 30 minutes)	0,4		EN ISO 374
Chemically resistant protective gloves, Short term exposure, Splash guard	Butyl rubber, Nitrile rubber (NBR)		0,4		EN ISO 374

Eye protection:

Protective goggles

Type	Use	Characteristics	Standard
Sealed safety goggles			

Skin and body protection:

Wear suitable protective clothing

Type	Standard
safety foot-wear	EN ISO 20345
Wear long sleeves	
Rubber apron, boots	EN 14605

Respiratory protection:

No respiratory protection needed under normal use conditions

Device	Filter type	Condition	Standard
Breathing apparatus with filter	Type A - High-boiling (>65 °C) organic compounds	Vapour protection	EN 14387



Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

FE-Imprägnierung Komponente A (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

Do not breathe gas/fumes/vapour/spray. Take off immediately all contaminated clothing. Skin protection. Do not eat, drink or smoke when using this product. Always wash hands and face immediately after handling this product, and once again before leaving the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Transparent.
Odour	: Mild odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: $\approx 1,14 \text{ g/cm}^3$ (23 °C, ISO 2811-2)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 510 – 770 mPa·s (25 °C, ISO 2884-1)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : < 0,5 % (< 5,7 g/l)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

FE-Imprägnierung Komponente A (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Bisphenol F-epoxy resin (9003-36-5)	
LD50 oral rat	> 2000 mg/kg

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) (933999-84-9)	
LD50 oral rat	2189 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 15 day(s))

3-glycidyloxypropyltrimethoxysilane (2530-83-8)	
LD50 oral rat	8025 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	4250 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	> 5,3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Suspected of causing genetic defects
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) (933999-84-9)	
LC50 fish 1	30 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	39 – 57 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

3-glycidyloxypropyltrimethoxysilane (2530-83-8)	
LC50 fish 1	55 mg/l (EU Method C.1, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Experimental value)
LC50 fish 2	237 mg/l (96 h, Salmo gairdneri, Static system, Literature, Young)
EC50 Daphnia 1	473 – 710 mg/l (48 h, Daphnia magna, Literature)
ErC50 (algae)	350 mg/l (72 h, Selenastrum capricornutum, Literature)

12.2. Persistence and degradability

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) (933999-84-9)	
Persistence and degradability	Not readily biodegradable in water.

3-glycidyloxypropyltrimethoxysilane (2530-83-8)	
Persistence and degradability	Not readily biodegradable in water.

Bis(4,4'-glycidyloxyphenyl) propan (1675-54-3)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

FE-Imprägnierung Komponente A (neu-Umstellung)

Safety Data Sheet

according to Regulation (EU) 2015/830

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) (933999-84-9)	
Partition coefficient n-octanol/water (Log Pow)	0,822 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

3-glycidyoxypropyltrimethoxysilane (2530-83-8)	
Partition coefficient n-octanol/water (Log Pow)	-0,92 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

Bis(4,4'-glycidyoxyphenyl) propan (1675-54-3)	
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) (933999-84-9)	
Partition coefficient n-octanol/water (Log Koc)	2,98 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Low potential for adsorption in soil.

3-glycidyoxypropyltrimethoxysilane (2530-83-8)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Results of PBT and vPvB assessment

Component	
reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) (933999-84-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
3-glycidyoxypropyltrimethoxysilane (2530-83-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Prevent liquid from entering sewers, watercourses, underground or low areas. Dispose as hazardous waste.
Additional information	: Avoid sub-soil penetration. Disposal must be done according to official regulations.
European List of Waste (LoW) code	: 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)
14.3. Transport hazard class(es)				
9	9	9	9	9

FE-Imprägnierung Komponente A (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M6
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Tunnel restriction code (ADR) : -

- Transport by sea

Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1

- Air transport

PCA Excepted quantities (IATA) : E1
PCA limited quantity max net quantity (IATA) : 30kgG

- Inland waterway transport

Classification code (ADN) : M6
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1

- Rail transport

Classification code (RID) : M6
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Transport category (RID) : 3

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : < 0,5 % (< 5,7 g/l)

Seveso Information : E2

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

FE-Imprägnierung Komponente A (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 16: Other information

Other information

: 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 noncustomers, will pay 1.69 € per minute from the German network. Callers using mobile telephones will be charged according to the network provider and tariff.

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Knauf SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

FE-Imprägnierung Komponente B (neu-Umstellung)

Safety Data Sheet

according to Regulation (EU) 2015/830

Revision date: 2020/03/03 Version: 11.0



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

1.1. Product identifier

Product form : Mixture
Product name : FE-Imprägnierung Komponente B (neu-Umstellung)

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : For professional use only
Use of the substance/mixture : Hardener

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Knauf Gips KG
Am Bahnhof 7
97346 Iphofen - Deutschland
T +49 932331-0 - F +49 932331-277
zentrale@knauf.de - www.knauf.de
E-mail address of competent person responsible for the SDS : sds-info@knauf.de

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral)	H302
Skin Corr. 1	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Hazardous ingredients : Phenol, styrenated ; propylidynetrimethanol, propoxylated, reaction products with ammonia; 1,3-Benzenedimethanamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

FE-Imprägnierung Komponente B (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

Hazard statements (CLP)	: H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.
EUH-statements	: EUH071 - Corrosive to the respiratory tract.
Extra phrases	: MAXIMUM VOC CONTENT LIMIT VALUES FOR PAINTS AND VARNISHES. Product Subcategory: j (Type: SB): 500 g/l VOC content: < 0,5 % (< 5,15 g/l) The product is intended for professional use

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol, styrenated	(CAS-No.) 61788-44-1 (EC-No.) 262-975-0 (REACH-no) 01-2119980970-27	40-<45	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
propylidynetrimethanol, propoxylated, reaction products with ammonia	(CAS-No.) 39423-51-3 (EC-No.) 500-105-6 (REACH-no) 01-2119556886-20	30-<35	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411
1,3-Benzenedimethanamine	(CAS-No.) 1477-55-0 (EC-No.) 216-032-5	15-<20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
3-aminomethyl-3,5,5-trimethylcyclohexylamine	(CAS-No.) 2855-13-2 (EC-No.) 220-666-8 (EC Index-No.) 612-067-00-9 (REACH-no) 01-2119514687-32	10-<15	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Protection for the first aid staff. Move the affected person away from the contaminated area. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
First-aid measures after inhalation	: In case of accident by inhalation: remove casualty to fresh air and keep at rest. When in doubt or if symptoms are observed, get medical advice.

FE-Imprägnierung Komponente B (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

- First-aid measures after skin contact : After contact with skin, wash immediately and thoroughly with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Take medical advice.
- First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth out with water. Drink plenty of water. Do NOT induce vomiting. Potential adverse human health effects and symptoms. Gastric perforation. Call a physician immediately.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Adapt extinguishing media to the environment. Carbon dioxide (CO₂). Foam. extinguishing powder.
- Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Use water spray to disperse the vapours. Do not dispose of fire-fighting water in the environment. Prevent entry to sewers and public waters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use appropriate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Contain the spilled material by bunding.
- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). For further information refer to section 13.

6.4. Reference to other sections

See Heading 7. See Heading 8. See Heading 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wear personal protective equipment. Do not breathe gas/fumes/vapour/spray.

FE-Imprägnierung Komponente B (neu-Umstellung)

Safety Data Sheet

according to Regulation (EU) 2015/830

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in a place accessible by authorised persons only. Use appropriate ventilation. Keep in original containers. Store in a dry place.
Storage temperature : 10 – 30 °C
Information on mixed storage : TRGS 510: Storage of hazardous substances in non-stationary containers.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Do not breathe gas/fumes/vapour/spray.

Hand protection:

Impermeable protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves, Long term exposure	Viton	2 (> 30 minutes)	0,4		EN ISO 374
Chemically resistant protective gloves, Short term exposure, Splash guard	Butyl rubber, Nitrile rubber (NBR)		0,4		EN ISO 374

Eye protection:

Protective goggles

Type	Use	Characteristics	Standard
Sealed safety goggles			

Skin and body protection:

safety foot-wear. Rubber apron, boots. Long sleeved protective clothing

Type	Standard
safety foot-wear	EN ISO 20345
Rubber apron, boots	EN 14605

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved organic vapour respirator

Device	Filter type	Condition	Standard
Breathing apparatus with filter	Type A - High-boiling (>65 °C) organic compounds	In case of inadequate ventilation wear respiratory protection, Vapour protection	EN 14387



FE-Imprägnierung Komponente B (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not drink, eat or smoke in the workplace. Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Take off immediately all contaminated clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Odour	: Amine-like.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 112 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: $\approx 1,03 \text{ g/cm}^3$ (ISO 2811-2)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 310 – 465 mPa·s (ISO 2884-1)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : < 0,5 % (< 5,15 g/l)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. Oxidizing agent.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

FE-Imprägnierung Komponente B (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

ATE CLP (oral)	802,806 mg/kg bodyweight
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propylidynetrimethanol, propoxylated, reaction products with ammonia (39423-51-3)

LD50 oral rat	550 mg/kg (Rat)
LD50 dermal rabbit	401 mg/kg (Rabbit)

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)

LD50 oral rat	1030 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 5,01 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Phenol, styrenated (61788-44-1)

EC50 Daphnia 1	> 0,249 mg/l (48 h, Daphnia sp., Literature study)
EC50 72h algae (1)	0,326 mg/l (Algae, Literature study)
Threshold limit algae 1	0,326 mg/l (EC50; 72 h; Algae)
Threshold limit algae 2	0,14 mg/l (NOEC; 72 h; Algae)

propylidynetrimethanol, propoxylated, reaction products with ammonia (39423-51-3)

EC50 Daphnia 1	13 mg/l 48 h; Daphnia magna (OECD 202)
ErC50 (algae)	4,4 mg/l 72 h; Pseudokirchnerella subcapitata (OECD 201)

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)

LC50 fish 1	110 mg/l (EU Method C.1, 96 h, Leuciscus idus, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	23 mg/l 48 h; Daphnia magna (OECD 202)
EC50 72h algae (1)	37 mg/l (EU Method C.3, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	37 mg/l 72 h; Desmodesmus subspicatus

12.2. Persistence and degradability

Phenol, styrenated (61788-44-1)

Persistence and degradability	Biodegradability in soil: no data available. Not readily biodegradable in water.
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propylidynetrimethanol, propoxylated, reaction products with ammonia (39423-51-3)

Persistence and degradability	Biodegradability in water: no data available.
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3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)

Persistence and degradability	Not readily biodegradable in water.
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FE-Imprägnierung Komponente B (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

12.3. Bioaccumulative potential

Phenol, styrenated (61788-44-1)	
Partition coefficient n-octanol/water (Log Pow)	6,24 – 7,77 (Experimental value, OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method)
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

propylidynetrimehanol, propoxylated, reaction products with ammonia (39423-51-3)	
Bioaccumulative potential	No bioaccumulation data available.

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
BCF other aquatic organisms 1	3,16 (BCFWIN, QSAR)
Partition coefficient n-octanol/water (Log Pow)	0,99 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Phenol, styrenated (61788-44-1)	
Ecology - soil	No (test)data on mobility of the substance available.

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
Surface tension	3,47 N/m (23 °C)
Partition coefficient n-octanol/water (Log Koc)	2,97 (log Koc, QSAR)
Ecology - soil	Low potential for adsorption in soil.

12.5. Results of PBT and vPvB assessment

Component	
3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not allow into drains or water courses.
Product/Packaging disposal recommendations	: This material and its container must be disposed of as hazardous waste. Handle uncleaned empty containers as full ones.
Additional information	: Avoid sub-soil penetration. Disposal must be done according to official regulations.
European List of Waste (LoW) code	: 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2735	2735	2735	2735	2735
14.2. UN proper shipping name				
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine ; 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine ; 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	Polyamines, liquid, corrosive, n.o.s. (1,3-Benzenedimethanamine ; 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine ; 3-aminomethyl-3,5,5-trimethylcyclohexylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzenedimethanamine ; 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3. Transport hazard class(es)				
8	8	8	8	8

FE-Imprägnierung Komponente B (neu-Umstellung)

Safety Data Sheet

according to Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C7
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2
Transport category (ADR) : 2
Tunnel restriction code (ADR) : E

- Transport by sea

No data available

- Air transport

PCA Excepted quantities (IATA) : E2
PCA limited quantity max net quantity (IATA) : 0.5L

- Inland waterway transport

Classification code (ADN) : C7
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2

- Rail transport

Classification code (RID) : C7
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Transport category (RID) : 2

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : < 0,5 % (< 5,15 g/l)

Seveso Information : E2

15.1.2. National regulations

No additional information available

FE-Imprägnierung Komponente B (neu-Umstellung)



Safety Data Sheet

according to Regulation (EU) 2015/830

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Other information

: 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 noncustomers, will pay 1.69 € per minute from the German network. Callers using mobile telephones will be charged according to the network provider and tariff.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
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.
EUH071	Corrosive to the respiratory tract.

Knauf SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.