

FE-Abdichtung Komponente A

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 2020/04/15 Revision date: 2020/04/15 Version: 8.0



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

1.1. Product identifier

Product form : Mixture
Product name : FE-Abdichtung Komponente A

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

1.2.2. Uses advised against

Restrictions on use : The product is intended for professional use

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

Technical information

Technical information service
T +49 (0)9001/31-1000 (see section 16)
knauf-direkt@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; oxirane, mono[(C12-14-alkyloxy)methyl] derivatives; Bis(4,4'-glycidyoxyphenyl) propan; reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

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Hazard statements (CLP)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. 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, Face shield. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P337+P313 - If eye irritation persists: Get medical advice/attention.
EUH-statements	: EUH205 - Contains epoxy constituents. May produce an allergic reaction.
Extra phrases	: Restricted to professional users MAXIMUM VOC CONTENT LIMIT VALUES FOR PAINTS AND VARNISHES. Product Subcategory: j (Type: SB): 500 g/l VOC content: < 500 g/l

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'-glycidylxyphenyl) propan	(CAS-No.) 1675-54-3 (EC-No.) 216-823-5 (EC Index-No.) 603-073-00-2 (REACH-no) 01-2119456619-26	40-<45	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	10-<15	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	(CAS-No.) 68609-97-2 (EC-No.) 271-846-8 (EC Index-No.) 603-103-00-4 (REACH-no) 01-2119485289-22	10-<15	Skin Sens. 1, H317 Skin Irrit. 2, H315
quartz, 1%≤conc respirable crystalline silica<10%	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	10-<15	STOT RE 2, H373

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Bis(4,4'-glycidylxyphenyl) 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	: 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.
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. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: 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 out with water. Drink plenty of water. When in doubt or if symptoms are observed, get medical advice.

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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 (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.

5.3. Advice for firefighters

Other information : Use self-contained breathing apparatus and chemically protective clothing. Full suit. Use water spray to disperse the vapours. Do not allow run-off from fire fighting to enter drains or water courses.

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.

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 allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment.

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 : 5 – 30 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

quartz, 1%=<conc respirable crystalline silica<10% (14808-60-7)		
EU	Local name	Silica crystalline (Quartz)
EU	IOELV TWA (mg/m ³)	0,1 mg/m ³ (Respirable fraction)

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quartz, 1%=<conc respirable crystalline silica<10% (14808-60-7)		
EU	Notes	OEL limit below 0.05 mg/m ³ of respirable silica dust. (Year of adoption 2003)

8.2. Exposure controls

Appropriate engineering controls:

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

Personal protective equipment:

Take off immediately all contaminated clothing. Wash hands before breaks and after work.

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
Short term exposure	Nitrile rubber (NBR), Butyl rubber	1 (> 10 minutes)	0,4		EN ISO 374
Repeated contact	Viton	2 (> 30 minutes)	0,4		EN ISO 374

Eye protection:

Protective goggles

Skin and body protection:

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

Type	Standard
Safety shoes	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	Vapour protection	EN 14387



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Black.
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

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Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1,35 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	: 1700 – 2550 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 : < 500 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 additional information available

10.6. Hazardous decomposition products

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

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

oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)	
LD50 oral rat	26800 mg/kg bodyweight (Rat, Male, Expert judgement, Oral)

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	: 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

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oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)	
LC50 fish 1	> 5000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

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

quartz, 1%=<conc respirable crystalline silica<10% (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

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

quartz, 1%=<conc respirable crystalline silica<10% (14808-60-7)	
Bioaccumulative potential	No bioaccumulation data available.

oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)	
BCF other aquatic organisms 1	160 – 263 (BCFWIN, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3,77 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

quartz, 1%=<conc respirable crystalline silica<10% (14808-60-7)	
Ecology - soil	Low potential for mobility in soil.

oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)	
Partition coefficient n-octanol/water (Log Koc)	> 5,63 (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 mobility in soil.

12.5. Results of PBT and vPvB assessment

Component	
oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)	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
quartz, 1%=<conc respirable crystalline silica<10% (14808-60-7)	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.
- European List of Waste (LoW) code : 08 01 11* - waste paint and varnish containing organic solvents or other 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

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ADR	IMDG	IATA	ADN	RID
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
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) : 5l
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Tunnel restriction code (ADR) : -

- Transport by sea

No data available

- 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
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 : < 500 g/l

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

This safety data sheet replaces the previous version of 2018/11/29. The following changes were made:

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
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
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic 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.

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Issue date: 2020/04/15 Revision date: 2020/04/15 Version: 8.0



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

1.1. Product identifier

Product form : Mixture
Product name : FE-Abdichtung Komponente B

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

1.2.2. Uses advised against

Restrictions on use : The product is intended for professional use

1.3. Details of the supplier of the safety data sheet

Manufacturer

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

Technical information

Technical information service
T +49 (0)9001/31-1000 (see section 16)
knauf-direkt@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
Acute Tox. 4 (Inhalation)	H332
Skin Corr. 1	H314
Skin Sens. 1	H317
Aquatic Chronic 3	H412

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) :



GHS05

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : Amines, polyethylenepoly-, triethylenetetramine fraction; benzyl alcohol; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 1,3-bis(aminomethyl)benzene, m-xylylenediamine; 2,4,6-tris(dimethylaminomethyl)phenol; N,N-dimethyl-1,3-diaminopropane (3-aminopropyl-dimethylamine); Phenol, styrenated

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Hazard statements (CLP)	: H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H412 - Harmful 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 or shower. 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, a doctor.
EUH-statements	: EUH071 - Corrosive to the respiratory tract.
Extra phrases	: Restricted to professional users MAXIMUM VOC CONTENT LIMIT VALUES FOR PAINTS AND VARNISHES. Product Subcategory: j (Type: SB): 500 g/l VOC content: < 500 g/l

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]
benzyl alcohol	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5 (REACH-no) 01-2119492630-38	25-<30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
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	15-<20	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
1,3-bis(aminomethyl)benzene, m-xylylenediamine	(CAS-No.) 1477-55-0 (EC-No.) 216-032-5 (REACH-no) 01-2119480150-50	5-<10	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
2,4,6-tris(dimethylaminomethyl)phenol	(CAS-No.) 90-72-2 (EC-No.) 202-013-9 (EC Index-No.) 603-069-00-0 (REACH-no) 01-2119560597-27	5-<10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315
N,N-dimethyl-1,3-diaminopropane (3-aminopropyl)dimethylamine)	(CAS-No.) 109-55-7 (EC-No.) 203-680-9 (EC Index-No.) 612-061-00-6 (REACH-no) 01-2119486842-27	5-<10	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Amines, polyethylenepoly-, triethylenetetramine fraction	(CAS-No.) 90640-67-8 (EC-No.) 292-588-2 (REACH-no) 01-2119487919-13	1-<5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
salicylic acid	(CAS-No.) 69-72-7 (EC-No.) 200-712-3 (EC Index-No.) 607-732-00-5 (REACH-no) 01-2119486984-17	1-<5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Phenol, styrenated	(CAS-No.) 61788-44-1 (EC-No.) 262-975-0 (REACH-no) 01-2119980970-27	1-<5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : 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.
- 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. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: 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 out with water. Drink plenty of water. Do NOT induce vomiting. 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 (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.

5.3. Advice for firefighters

- Other information : Use self-contained breathing apparatus and chemically protective clothing. Full suit. Use water spray to disperse the vapours. Do not allow run-off from fire fighting to enter drains or water courses.

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.

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 allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment.

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 : 5 – 30 °C

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.

Personal protective equipment:

Take off immediately all contaminated clothing. Wash hands before breaks and after work.

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
Short term exposure	Nitrile rubber (NBR), Butyl rubber	1 (> 10 minutes)	0,4		EN ISO 374
Repeated contact	Viton	2 (> 30 minutes)	0,4		EN ISO 374

Eye protection:

Protective goggles

Skin and body protection:

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

Type	Standard
Safety shoes	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	Vapour protection	EN 14387



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Appearance	: Liquid.
Colour	: dark yellow.
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	: 88,5 °C (DIN EN ISO 2719)
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	: $\approx 1,02 \text{ g/cm}^3$ (ISO 2811-2)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 225 – 335 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 : < 500 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 additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed or in contact with skin. Harmful if inhaled. Not classified.

ATE CLP (oral)	978,53 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h
benzyl alcohol (100-51-6)	
LD50 oral rat	1570 mg/kg bw/day (Rat, Male, Experimental value)

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benzyl alcohol (100-51-6)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 Inhalation - Rat	> 4,178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

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	> 5,01 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))

1,3-bis(aminomethyl)benzene, m-xylylenediamine (1477-55-0)	
LD50 oral rat	930 mg/kg bodyweight OECD 401
LD50 dermal rat	> 3100 mg/kg bodyweight (24 h, Rat, Male / female, Experimental value, Dermal)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 Inhalation - Rat	1,34 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))
LC50 Inhalation - Rat (Dust/Mist)	1,34 mg/l/4h (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
LD50 oral rat	2169 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))

N,N-dimethyl-1,3-diaminopropane (3-aminopropyldimethylamine) (109-55-7)	
LD50 oral rat	410 mg/kg OECD 401
LD50 dermal rabbit	2138,7 mg/kg OECD 402
LC50 Inhalation - Rat (Vapours)	24,8 mg/l/4h

salicylic acid (69-72-7)	
LD50 oral rat	891 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Dermal)

Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)	
LD50 oral rat	1716 mg/kg OECD 401
LD50 dermal rabbit	1465 mg/kg OECD 402

Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause 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

benzyl alcohol (100-51-6)	
LC50 fish 1	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)
ErC50 (algae)	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

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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

1,3-bis(aminomethyl)benzene, m-xylolenediamine (1477-55-0)	
LC50 fish 1	87,6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value, GLP)
LC50 fish 2	> 100 mg/l (LC50; 96 h)
EC50 Daphnia 1	16 mg/l 48 h; Daphnia magna (OECD 202)
ErC50 (algae)	20,3 mg/l 72 h; Pseudokirchnerella subcapitata (OECD 201)

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
LC50 fish 1	175 mg/l (APHA, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Nominal concentration)
LC50 fish 2	175 mg/l 96 h; Cyprinus carpio
EC50 Daphnia 1	718 mg/l 48 h; Palaemonetes vulgaris
ErC50 (algae)	84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

N,N-dimethyl-1,3-diaminopropane (3-aminopropylidimethylamine) (109-55-7)	
LC50 fish 1	122 mg/l 96 h; Leuciscus idus melanotus (OECD 203)

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)

salicylic acid (69-72-7)	
LC50 fish 1	90 mg/l (DIN 38412-15, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value)
EC50 Daphnia 1	870 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h algae (1)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Experimental value)
ErC50 (algae)	> 100 mg/l 72 h; Desmodesmus subspicatus (OECD 201)

Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)	
EC50 Daphnia 1	31,1 mg/l 48 h; Daphnia magna
ErC50 (algae)	20 mg/l 72 h; Pseudokirchnerella subcapitata (OECD 201)

12.2. Persistence and degradability

benzyl alcohol (100-51-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1,6 g O ₂ /g substance
Chemical oxygen demand (COD)	2,4 g O ₂ /g substance
ThOD	2,5 g O ₂ /g substance

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
Persistence and degradability	Not readily biodegradable in water.

1,3-bis(aminomethyl)benzene, m-xylolenediamine (1477-55-0)	
Persistence and degradability	Not readily biodegradable in water.

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Persistence and degradability	Not readily biodegradable in water.

Phenol, styrenated (61788-44-1)	
Persistence and degradability	Biodegradability in soil: no data available. Not readily biodegradable in water.

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salicylic acid (69-72-7)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,95 g O ₂ /g substance
Chemical oxygen demand (COD)	1,58 g O ₂ /g substance
ThOD	1,623 g O ₂ /g substance
BOD (% of ThOD)	0,41 – 0,6

12.3. Bioaccumulative potential

benzyl alcohol (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1 – 1,1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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).

1,3-bis(aminomethyl)benzene, m-xylylenediamine (1477-55-0)	
BCF fish 1	< 2,7 (BCF)
Partition coefficient n-octanol/water (Log Pow)	0,18 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Partition coefficient n-octanol/water (Log Pow)	-0,66 (Experimental value, EPA OPPTS 830.7550: Partition Coefficient (n-octanol/water), Shake Flask Method, 21.5 °C)
Bioaccumulative potential	Not bioaccumulative.

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).

salicylic acid (69-72-7)	
Partition coefficient n-octanol/water (Log Pow)	2,25 (Experimental value, Equivalent or similar to OECD 117, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

benzyl alcohol (100-51-6)	
Surface tension	39 mN/m (20 °C)
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.

1,3-bis(aminomethyl)benzene, m-xylylenediamine (1477-55-0)	
Partition coefficient n-octanol/water (Log Koc)	3,11 (log Koc, Other, QSAR)
Ecology - soil	Low potential for mobility in soil.

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Partition coefficient n-octanol/water (Log Koc)	1,32 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

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

12.5. Results of PBT and vPvB assessment

Component	
benzyl alcohol (100-51-6)	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-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
1,3-bis(aminomethyl)benzene, m-xylylenediamine (1477-55-0)	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

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Component	
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	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

- 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.
- European List of Waste (LoW) code : 08 01 11* - waste paint and varnish containing organic solvents or other 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. (m-xyllylendiamin; Isophorondiamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzoldimethanamin, m-xyllylendiamin ; 3-Aminomethyl-3,5,5-trimethylcyclohexylamin)	Polyamines, liquid, corrosive, n.o.s. (m-xyllylendiamin; Isophorondiamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-xyllylendiamin; Isophorondiamin)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-xyllylendiamin; Isophorondiamin)
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

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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 : < 500 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

This safety data sheet replaces the previous version of 2018/11/29. The following changes were made:

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

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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
Flam. Liq. 3	Flammable liquids, Category 3
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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.