

Safety Data Sheet

according to UK REACH Regulation

KÖSTER KB-Pox Adhesive A

Revision date: 30.01.2024 Product code: J_120_A Page 1 of 13

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

1.1. Product identifier

KÖSTER KB-Pox Adhesive A

UFI: 8XET-SWN8-PHM3-HG0R

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

Use of the substance/mixture

The product is intended for professional use.

Uses advised against

No identified use(s).

1.3. Details of the supplier of the safety data sheet

Company name: KÖSTER BAUCHEMIE AG
Street: Dieselstrasse 1 - 10
Place: D-26607 Aurich

Telephone: +49-4941-9709-0 Telefax: +49-4941-9709-40

e-mail: info@koester.eu

Contact person: Forschung & Entwicklung e-mail: produktsicherheit@koester.eu

Internet: www.koester.eu

1.4. Emergency telephone +49-551-19240 (24 h, Giftinformationszentrum Nord)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

bis-[4-(2,3-epoxipropoxi)phenyl]propane

Bisphenol F-Epoxyresin Quartz (respirable), SiO2

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Signal word: Warning

Pictograms:





Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.



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H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Special labelling of certain mixtures

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray

or mist.

Additional advice on labelling

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Contains epoxy constituents with an average molecular weight of 700.



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Hazardous components

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (GB CLP Regul	ation)	·			
1675-54-3	bis-[4-(2,3-epoxipropoxi)phen	yl]propane		10 - < 20 %		
	216-823-5	603-073-00-2				
	Skin Irrit. 2, Eye Irrit. 2, Skin S	Sens. 1, Aquatic Chronic 2; H3	315 H319 H317 H411			
9003-36-5	Bisphenol F-Epoxyresin			5 - < 10 %		
	500-006-8		01-2119454392-40			
	Skin Irrit. 2, Skin Sens. 1, Aqu	atic Chronic 2; H315 H317 H	411			
14808-60-7	Quartz (respirable), SiO2			5 - < 10 %		
	238-878-4					
	STOT RE 1; H372					
68609-97-2	oxirane, mono[(C12-14-alkylo	1 - < 2 %				
	271-846-8	603-103-00-4				
	Skin Irrit. 2, Skin Sens. 1; H31					
13463-67-7	titanium dioxide	1 - < 2 %				
	236-675-5	022-006-00-2				
	Carc. 2; H351					
1330-20-7	xylene			< 0.1 %		
	215-535-7	601-022-00-9				
	Flam. Liq. 3, Acute Tox. 4, Ac					
100-41-4	ethylbenzene			< 0.1 %		
	202-849-4	601-023-00-4				
	Flam. Liq. 2, Acute Tox. 4, ST					

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxi)phenyl]propane	10 - < 20 %
	Skin Irrit. 2; H3	315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
9003-36-5	500-006-8	Bisphenol F-Epoxyresin	5 - < 10 %
	dermal: LD50	= 2000 mg/kg; oral: LD50 = 2000 mg/kg	
1330-20-7	215-535-7	xylene	< 0.1 %
	inhalation: AT 1100 mg/kg	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE =	
100-41-4	202-849-4	ethylbenzene	< 0.1 %
		.50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: mg/kg; oral: LD50 = 3500 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Move victim out of danger zone.



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After inhalation

Provide fresh air. Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

Wash with plenty of water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Call a physician in any case!

After ingestion

Remove casualty to fresh air and keep warm and at rest. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Caution if victim vomits: Risk of aspiration! If unconscious but breathing normally, place in recovery position and seek medical advice.

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

Contains epoxy constituents. May produce an allergic reaction.

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

Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Dry extinguishing powder. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance itself, combustion products, resulting gases: Carbon dioxide. Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment. Wear protective gloves/protective clothing and eye/face protection.

For non-emergency personnel

Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion at critical locations.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Other information

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section



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on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

When using do not eat, drink, smoke, sniff. Avoid release to the environment. Keep only in the original container in a cool, well-ventilated place. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Further information on handling

When using do not eat, drink, smoke, sniff. Avoid release to the environment. Keep only in the original container in a cool, well-ventilated place. Do not breathe gas/fumes/vapour/spray.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Protect from sunlight.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-83-1	2-Methylpropan-1-ol	50	154		TWA (8 h)	WEL
		75	231		STEL (15 min)	WEL
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL



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Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol		Post shift

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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Suitable material: NBR (Nitrile rubber). PVC (Polyvinyl chloride). Butyl rubber. Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: white

Odour: characteristic

Melting point/freezing point:

Boiling point or initial boiling point and

> 200 °C

boiling range:

Flammability:

Lower explosion limits:

Upper explosion limits:

not determined

Upper explosion limits:

not determined

Flash point:

> 160 °C

Decomposition temperature:

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

0,0001 hPa

(at 23 °C)

Density: 1,65 g/cm³
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties not explosive.
Self-ignition temperature



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Solid: not applicable Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined Viscosity / dynamic: > 8000 mPa·s (at 23 °C)

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Reacts with: Alkalis (alkalis). Alcohols.

10.4. Conditions to avoid

Keep away from heat. Protect from direct sunlight.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

The product is stable under storage at normal ambient temperatures. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

No information available.

ATEmix calculated

ATE (inhalation vapour) 25804,17 mg/l



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
9003-36-5	Bisphenol F-Epoxyresin						
	oral	LD50 mg/kg	2000	Rat			
	dermal	LD50 mg/kg	2000	Rat			
1330-20-7	xylene						
	dermal	ATE mg/kg	1100				
	inhalation vapour	ATE	11 mg/l				
	inhalation dust/mist	ATE	1,5 mg/l				
100-41-4	ethylbenzene						
	oral	LD50 mg/kg	3500	Rat	GESTIS		
	dermal	LD50 mg/kg	15400	Rabbit	GESTIS		
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat			
	inhalation dust/mist	ATE	1,5 mg/l				

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (bis-[4-(2,3-epoxipropoxi)phenyl]propane; Bisphenol F-Epoxyresin; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Quartz (respirable), SiO2)

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

SECTION 12: Ecological information

12.1. Toxicity

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



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
9003-36-5	Bisphenol F-Epoxyresin	Bisphenol F-Epoxyresin							
	Acute fish toxicity	LC50 mg/l	2,54		Leuciscus idus (golden orfe)				
	Acute crustacea toxicity	EC50 mg/l	2,55		Daphnia magna (Big water flea)				
100-41-4	ethylbenzene								
	Acute algae toxicity	ErC50	3,6 mg/l	96 h		GESTIS			

12.2. Persistence and degradability

Product is not easily biodegradable.

12.3. Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment cannot be ruled out.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-41-4	ethylbenzene	3,15

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish

containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information



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Land transport (ADR/RID)

14.1. UN number or ID number: UN3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Epoxidharz)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9

Classification code: M6

Special Provisions: 274 335 601

Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 90
Tunnel restriction code: E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number or ID number: UN3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Epoxidharz)

9

14.3. Transport hazard class(es):

14.4. Packing group:
Hazard label:
9



Classification code: M6

Special Provisions: 274 335 601

Limited quantity: 5 L
Excepted quantity: E1

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number or ID number: UN3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy

resin)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Marine pollutant: 1

Special Provisions: 274, 335
Limited quantity: 5 L

Excepted quantity: E1

EmS: F-A, S-F



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Other applicable information (marine transport)

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy

resin)

14.3. Transport hazard class(es): 9 Ш 14.4. Packing group: Hazard label:



A97 A158 **Special Provisions:** 30 kg G Limited quantity Passenger: Y964 Passenger LQ:

964 IATA-packing instructions - Passenger: 450 L IATA-max. quantity - Passenger: 964 IATA-packing instructions - Cargo: 450 L IATA-max. quantity - Cargo:

Other applicable information (air transport)

Passenger-LQ: Y964

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Print date: 22.03.2024

SECTION 12: Ecological information Danger releasing substance:

14.6. Special precautions for user

SECTION 6: Accidental release measures SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

0,5 % (8,25 g/l) 2004/42/EC (VOC):

National regulatory information

Water hazard class (D): 3 - highly hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes



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This data sheet contains changes from the previous version in section(s): 9.

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.	
H304 May be fatal if swallowed and enters airways.	
and the state of t	
H312 Harmful in contact with skin.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H319 Causes serious eye irritation.	
H332 Harmful if inhaled.	
H351 Suspected of causing cancer.	
H372 Causes damage to organs (lung) through prolonged or repeated exposure if inhaled.	
H373 May cause damage to organs through prolonged or repeated exposure.	
H411 Toxic to aquatic life with long lasting effects.	
H412 Harmful to aquatic life with long lasting effects.	
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe sp	ray
or mist.	





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Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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