

# **Safety Data Sheet**

according to UK REACH Regulation

## KÖSTER KB-Pox IN A

Revision date: 09.04.2024 Product code: IN\_231\_A Page 1 of 11

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

#### 1.1. Product identifier

KÖSTER KB-Pox IN A

UFI: SHS3-CHFA-UE79-6K9A

#### 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. Building and construction work.

## 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 Aquatic Chronic 2; H411

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 oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 1,6-Hexanediol diglycidyl ether

Bisphenol F-Epoxyresin

Signal word: Warning

Pictograms:





## **Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.



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#### **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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

protection.

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

P321 Specific treatment (see SECTION 4: First aid measures on this label).

P391 Collect spillage.

#### Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

## 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.

## **Hazardous components**

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
1675-54-3	bis-[4-(2,3-epoxipropoxi)phenyl]pro	pane		40 - < 60 %	
	216-823-5	603-073-00-2			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1, Aquatic Chronic 2; H315 H319 H3	17 H411		
68609-97-2	oxirane, mono[(C12-14-alkyloxy)me	ethyl] derivs.		20 - < 40 %	
	271-846-8	603-103-00-4			
	Skin Irrit. 2, Skin Sens. 1; H315 H317				
16096-31-4	1,6-Hexanediol diglycidyl ether	1,6-Hexanediol diglycidyl ether			
	240-260-4		01-2119463471-41		
	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412				
9003-36-5	Bisphenol F-Epoxyresin				
	500-006-8		01-2119454392-40		
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411				

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. I	ecific Conc. Limits, M-factors and ATE			
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxi)phenyl]propane	40 - < 60 %		
	Skin Irrit. 2; H3	>= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100			
16096-31-4	240-260-4	6-Hexanediol diglycidyl ether			
	dermal: LD50 =	nal: LD50 = 4900 mg/kg; oral: LD50 = 8500 mg/kg			
9003-36-5	500-006-8	Bisphenol F-Epoxyresin			
	dermal: LD50 = 2000 mg/kg; oral: LD50 = 2000 mg/kg				

# **SECTION 4: First aid measures**



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#### 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection! Remove persons to safety.

#### 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

Rinse mouth immediately and drink plenty of water. 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

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## Unsuitable extinguishing media

High power water jet.

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

In case of fire and/or explosion do not breathe fumes.

# 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

Remove persons to safety. Wear chemical resistant suit. Do not breathe gas/vapour.

# 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. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

## 6.3. Methods and material for containment and cleaning up

## For containment

Cover drains.

## Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the



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recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Wear personal protection equipment (refer to section 8).

## **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. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture. Avoid release to the environment.

#### 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. Avoid release to the environment. Keep container tightly closed.

#### 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

No special measures are necessary.

## 7.3. Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
16096-31-4	1,6-Hexanediol diglycidyl ether			
Worker DNEL,		dermal		2,8 mg/kg bw/day
Worker DNEL,		inhalation		2,9 mg/m³

## PNEC values

CAS No	Substance			
Environmental compartment Value		Value		
16096-31-4	1,6-Hexanediol diglycidyl ether			
Freshwater	Freshwater 0,0115 mg/l			
Marine water 0,00115 mg/l		0,00115 mg/l		



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#### Additional advice on limit values

To date, no national critical limit values exist.

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

## 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. Only wear fitting, comfortable and clean protective clothing.

## 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: liquid
Colour: transparent
Odour: characteristic

Melting point/freezing point:

Boiling point or initial boiling point and

> 200 °C

boiling range:

Flammability: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined
Flash point: > 160 °C
Decomposition temperature: not determined
Partition coefficient n-octanol/water: not determined
Vapour pressure: 0,0001 hPa

(at 23 °C)

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

#### 9.2. Other information

## Information with regard to physical hazard classes

Explosive properties not explosive.



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Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate: not determined Viscosity / dynamic: 150 mPa·s (at 22 °C)

**Further Information** 

No information available.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No risks worthy of mention.

#### 10.2. Chemical stability

No risks worthy of mention.

## 10.3. Possibility of hazardous reactions

No risks worthy of mention.

#### 10.4. Conditions to avoid

Keep cool. Protect from sunlight.

## 10.5. Incompatible materials

No risks worthy of mention.

## 10.6. Hazardous decomposition products

No risks worthy of mention.

# **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**

No information available.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
16096-31-4	1,6-Hexanediol diglycidyl	ether				
	oral	LD50 8 mg/kg	3500	Rat		
	dermal	LD50 4 mg/kg	900	Rabbit		
9003-36-5	Bisphenol F-Epoxyresin					
	oral	LD50 2 mg/kg	2000	Rat		
	dermal	LD50 2 mg/kg	2000	Rat		

## Irritation and corrosivity

Irritating to eyes. After skin contact: irritant.



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#### Sensitising effects

May cause sensitization by skin contact.

#### Carcinogenic/mutagenic/toxic effects for reproduction

No information available.

#### STOT-repeated exposure

May produce an allergic reaction.

#### Information on likely routes of exposure

skin contact. Ingestion

#### Specific effects in experiment on an animal

No information available.

#### Additional information on tests

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.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
16096-31-4	1,6-Hexanediol diglycidyl ether							
	Acute fish toxicity	LC50	30 mg/l		Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50 mg/l	23,1	72 h				
	Acute crustacea toxicity	EC50	67 mg/l	48 h	Daphnia magna			
9003-36-5	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)			

# 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.

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



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#### **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**

#### 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.

(Epoxy resin (MW <= 700))

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label: 9



g

Classification code: M6

Special Provisions: 274 335 601

Limited quantity:5 LExcepted quantity:E1Transport category:3Hazard No:90Tunnel 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.

(Epoxy resin (MW <= 700))

14.3. Transport hazard class(es): 9
14.4. Packing group: III

Hazard label:



Classification code: M6

Special Provisions: 274 335 601

Limited quantity: 5 L
Excepted quantity: E1

Other applicable information (inland waterways transport)

E1



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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 (MW <= 700))

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

Marine pollutant:

Special Provisions: 274, 335
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Other applicable information (marine transport)

E1

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 (MW <= 700))

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



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

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

Other applicable information (air transport)

E1

Passenger-LQ: Y964

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Print date: 14.05.2024

Danger releasing substance: SECTION 12: Ecological information

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**



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## 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

## 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**

#### 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
Aquatic Chronic 2; H411	Calculation method

#### Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.



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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.)