

# **Safety Data Sheet**

according to UK REACH Regulation

## KÖSTER FS Primer 2C A

Revision date: 20.03.2023 Product code: J\_139\_A Page 1 of 11

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

## 1.1. Product identifier

KÖSTER FS Primer 2C A

UFI: AEWE-EFWE-1PHN-VWAC

#### 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 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

### **GB CLP Regulation**

### Hazard components for labelling

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) Bisphenol F Epoxy Resin

1,6-Hexanediol diglycidyl ether

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.

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.

P501 Dispose of contents/container to disposal according to local regulations.

## 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				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)				
	500-033-5	603-074-00-8			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411				
9003-36-5	Bisphenol F Epoxy Resin				
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411				
16096-31-4	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				_	

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. L	Specific Conc. Limits, M-factors and ATE				
25068-38-6		eaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average nolecular weight <= 700)				
	Skin Irrit. 2; H315: >= 5 - 100					
9003-36-5		Bisphenol F Epoxy Resin	< 15 %			
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 23800 mg/kg					
16096-31-4	240-260-4	1,6-Hexanediol diglycidyl ether	< 15 %			
	dermal: LD50 = 4900 mg/kg; oral: LD50 = 8500 mg/kg					

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures



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#### **General information**

First aider: Pay attention to self-protection! Move victim out of danger zone. In all cases of doubt, or when symptoms persist, seek medical advice.

#### 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

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Call a doctor if you feel unwell.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. 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

Allergic reactions.

Causes tears.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

## 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: Water spray jet, Foam, Carbon dioxide (CO2), Dry extinguishing powder.

#### Unsuitable extinguishing media

High power water jet.

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

In case of fire may be liberated:

Carbon dioxide. Carbon monoxide Gases/vapours, harmful.

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

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Wear personal protection equipment. Provide adequate ventilation. Avoid contact with skin, eyes and



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clothes.

#### 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. Avoid release to the environment. Refer to special instructions/Safety data sheets. 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). Disposal: see section 13.

#### 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. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 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

Store in a place accessible by authorized persons only. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Protect from sunlight.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

## Further information on storage conditions

Protect against: Frost.

## 7.3. Specific end use(s)

No information available.

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



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#### 8.1. Control parameters

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

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
9003-36-5	Bisphenol F Epoxy Resin						
Worker DNEL,		dermal		104,15 mg/kg bw/day			
Worker DNEL,		inhalation		29,39 mg/m³			
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				
16096-31-4 1,6-Hexanediol diglycidyl ether				
Freshwater		0,0115 mg/l		
Marine water		0,00115 mg/l		

#### 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

Suitable eye protection: goggles. 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



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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: 1,1 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

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

#### Other safety characteristics

Evaporation rate: not determined Viscosity / dynamic: < 1000 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



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#### Toxicocinetics, metabolism and distribution

No information available.

#### **Acute toxicity**

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

No information available.

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
9003-36-5	Bisphenol F Epoxy Resin							
	oral	LD50 > 23 mg/kg	800	Rat				
	dermal	LD50 > 20 mg/kg	000	Rabbit				
16096-31-4	1,6-Hexanediol diglycidyl ether							
	oral	LD50 8500 mg/kg	0	Rat				
	dermal	LD50 4900 mg/kg	0	Rabbit				

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eve irritation.

Irritating to eyes. After skin contact: irritant.

## Sensitising effects

Contains epoxy constituents. May produce an allergic reaction. May cause an allergic skin reaction. (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700); Bisphenol F Epoxy Resin; 1,6-Hexanediol diglycidyl ether)

#### 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

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

#### **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]

## 11.2. Information on other hazards

## **Endocrine disrupting properties**

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

# **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 Epoxy Resin							
	Acute fish toxicity	LC50 mg/l	1,5 - 7,7	I .	Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50	220 mg/l	96 h				
	Acute crustacea toxicity	EC50 mg/l	1,1 - 3,6	48 h	Daphnia magna			
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			

#### 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. 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 MW < 700)

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 MW < 700)

14.3. Transport hazard class(es):

14.4. Packing group: III Hazard label: 9



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 MW < 700)

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

Hazard 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)

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:

Limited quantity Passenger:

Passenger LQ:

A97 A158

30 kg G

Y964

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

Other applicable information (air transport)

E1

Passenger-LQ: Y964

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

\*2

Print date: 22.03.2024

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**

## 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

2004/42/EC (VOC): 1 % (1 g/l)

**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): 1,11.

#### 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

#### 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.

#### **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.)