

Safety Data Sheet

according to UK REACH Regulation

KÖSTER FS Primer 2C B

Revision date: 20.03.2023

Product code: J_139_B

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

1.1. Product identifier

KÖSTER FS Primer 2C B

UFI: 6F7N-AFX9-9W0J-PAE7

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 number:

+49-551-19240 (24 h, Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H302
Acute Tox. 4; H332
Skin Corr. 1B; H314
Eye Dam. 1; H318
Skin Sens. 1; H317
Repr. 2; H361f
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

m-Xylenediamine
4-tert-butylphenol
benzyl alcohol
Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture)

Signal word: Danger

Pictograms:



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Hazard statements

H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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/doctor.

Additional advice on labelling

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

2.3. Other hazards

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

amines.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1477-55-0	m-Xylenediamine			< 50 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H332 H312 H302 H314 H317 H412			
98-54-4	4-tert-butylphenol			< 50 %
	202-679-0	604-090-00-8		
	Repr. 2, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 1; H361f H315 H318 H410			
100-51-6	benzyl alcohol			< 10 %
	202-859-9	603-057-00-5		
	Acute Tox. 4, Acute Tox. 4; H332 H302			
25513-64-8	Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture)			< 5 %
	247-063-2		01-2119560598-25	
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H314 H317 H412			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1477-55-0	216-032-5	m-Xylenediamine	< 50 %
		inhalation: LC50 = 5,6 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 2000 mg/kg; oral: ATE = 500 mg/kg	
98-54-4	202-679-0	4-tert-butylphenol	< 50 %
		Aquatic Chronic 1; H410: M=1	
100-51-6	202-859-9	benzyl alcohol	< 10 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 1230 mg/kg	
25513-64-8	247-063-2	Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture)	< 5 %
		oral: ATE = 500 mg/kg	

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: 4-tert-butylphenol

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. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. Medical treatment necessary.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. Risk of serious damage to eyes.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Hazards identification: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk. Caution if victim vomits: Risk of aspiration!

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

Processing vapours can irritate the respiratory tracts, skin and eyes.
Allergic reactions.
Gastrointestinal complaints.
Further information SECTION 11: Toxicological information.

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.

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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.

In case of fire may be liberated:

Nitrogen oxides (NO_x), Carbon dioxide (CO₂), Carbon monoxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

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

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section 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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

Do not mix with other chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

Do not store together with: acid.

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Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

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

Protect against: Frost.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Work in well-ventilated zones or use proper respiratory protection.

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). penetration time (maximum wearing period): 480 min. 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

Work in well-ventilated zones or use proper respiratory protection.

Environmental exposure controls

Avoid release to the environment. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	transparent
Odour:	stinging
Boiling point or initial boiling point and boiling range:	> 200 °C
Flash point:	> 160 °C
Vapour pressure: (at 20 °C)	0,02 hPa
Density (at 23 °C):	1,05 g/cm ³

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties
not explosive.

Oxidizing properties
Not oxidising.

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Other safety characteristics

Viscosity / dynamic:

300 mPa·s

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

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.

10.4. Conditions to avoid

Keep cool. Protect from sunlight.

10.5. Incompatible materials

Avoid: Oxidizing agent, Acids, Acrylate, Alcohols, aldehydes, halogenated hydrocarbons, Ketone. Nitrites. May be corrosive to metals.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Nitrogen oxides (NO_x), amines.

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

Acute toxicity, dermal.

ATE_{mix} calculated

ATE (oral) 938,9 mg/kg; ATE (inhalation dust/mist) 2,830 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1477-55-0	m-Xylenediamine				
	oral	ATE 500 mg/kg			
	dermal	LD50 2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 5,6 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
100-51-6	benzyl alcohol				
	oral	LD50 1230 mg/kg	Rat	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
25513-64-8	Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture)				
	oral	ATE 500 mg/kg			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (m-Xylenediamine; Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture))

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. (4-tert-butylphenol)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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.

Information on likely routes of exposure

inhalation. 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]

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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. No information

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available.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1477-55-0	m-Xylenediamine					
	Acute fish toxicity	LC50	75 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50	12 mg/l	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50	15,2 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-51-6	benzyl alcohol	1,05

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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: UN2735

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14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzendimethanamin;
2,2,4(oder 2,4,4)-Trimethylhexan-1,6-diamin)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Classification code: C7

Special Provisions: 274

Limited quantity: 1 L

Transport category: 2

Hazard No: 80

Tunnel restriction code: E

Other applicable information (land transport)

E1

E2

Inland waterways transport (ADN)

14.1. UN number or ID number: UN2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Benzendimethanamin;
2,2,4(oder 2,4,4)-Trimethylhexan-1,6-diamin)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Classification code: C7

Special Provisions: 274

Limited quantity: 1 L

Other applicable information (inland waterways transport)

E1

E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylenediamine;
Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture))

14.3. Transport hazard class(es): 8

14.4. Packing group: II

Hazard label: 8



Special Provisions: 274

Limited quantity: 1 L

Excepted quantity: E2

EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN2735

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14.2. UN proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylenediamine;
Trimethylhexamethylenediamine (2,2,4- and 2,4,4- mixture))

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

0.5 L

IATA-packing instructions - Passenger:

851

IATA-max. quantity - Passenger:

1 L

IATA-packing instructions - Cargo:

855

IATA-max. quantity - Cargo:

30 L

Other applicable information (air transport)

E1

Passenger-LQ: Y841

E2

Passenger-LQ: Y840

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Yes



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

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

4-tert-butylphenol

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2004/42/EC (VOC):

8,5 % (85 g/l)

National regulatory information

Water hazard class (D):

2 - obviously 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

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%

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

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361f	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

- H302 Harmful if swallowed.
- H302+H332 Harmful if swallowed or if inhaled.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H361f Suspected of damaging fertility.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Further Information

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