

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

KÖSTER LF-BM B

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:	KOESTER BAUCHEMIE AG	
Street:	Dieselstrasse 1 - 10	
Place:	D-26607 Aurich	
Telephone:	+49-4941-9709-0	Telefax: +49-4941-9709-40
e-mail (Contact person):	produktsicherheit@koester.eu	
Internet:	www.koester.eu	
Responsible Department:	Forschung & Entwicklung	

1.4. Emergency telephone number: +49-551-19240 (24 h, Giftinformationszentrum Nord)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Reproductive toxicity: Repr. 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Harmful if swallowed.

Harmful if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility. Suspected of damaging the unborn child.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

benzyl alcohol

3-aminomethyl-3,5,5-trimethylcyclohexylamine

1,3-Benzendimethanamin

nonylphenol

Signal word: Danger

Safety Data Sheet

according to Regulation (EC) No 1907/2006

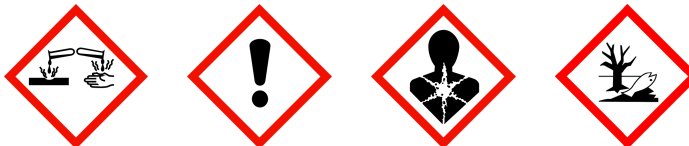
KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 2 of 11

Pictograms:



Hazard statements

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P352	Wash with plenty of water.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 3 of 11

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
100-51-6	benzyl alcohol			< 50 %
	202-859-9	603-057-00-5		
	Acute Tox. 4, Acute Tox. 4; H332 H302			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			< 50 %
	220-666-8	612-067-00-9		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412			
1477-55-0	1,3-Benzendimethanamin			< 10 %
	216-032-5			
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H332 H302 H314 H318 H317 H412			
69-72-7	Salicylic acid			< 10 %
	200-712-3			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H302 H315 H318 H335			
25154-52-3	nonylphenol			< 5 %
	246-672-0	601-053-00-8		
	Repr. 2, Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H361fd H302 H314 H400 H410			

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

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.

After inhalation

Provide fresh air.

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.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 4 of 11

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: Nitrogen oxides (NOx).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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**

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

Absorb with liquid-binding material (e.g. 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 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.

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.

Advice on storage compatibility

Do not store together with: acid.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 5 of 11

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.

Protective and hygiene measures

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.

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

Changes in the physical state

Initial boiling point and boiling range:	> 200 °C
Flash point:	> 160 °C

Explosive properties

not explosive.

Oxidizing properties

Not oxidising.

Vapour pressure: (at 23 °C)	5 hPa
--------------------------------	-------

Density (at 23 °C):	1,05 g/cm ³
---------------------	------------------------

Viscosity / dynamic:	300 mPa·s
----------------------	-----------

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 6 of 11

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

Acid.

10.6. Hazardous decomposition products

In case of fire may be liberated: Nitrogen oxides (NOx). amines.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
100-51-6	benzyl alcohol				
	oral	LD50 mg/kg	1230	Rat	GESTIS
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	LD50 mg/kg	1030	Rat	
	dermal	ATE mg/kg	1100		
1477-55-0	1,3-Benzendimethanamin				
	oral	ATE mg/kg	500		
	dermal	LD50 mg/kg	2000	Rat	
	inhalative (4 h) vapour	LC50	5,6 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
69-72-7	Salicylic acid				
	oral	LD50 mg/kg	891	Rat	
	dermal	LD50 mg/kg	10000	Rabbit	
25154-52-3	nonylphenol				
	oral	ATE mg/kg	500		

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 7 of 11

Irritation and corrosivity

Causes severe skin burns and eye damage.
after ingestion: Irritation and etching. Hazards identification: Stomach perforation.

Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine;
1,3-Benzendimethanamin)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. Suspected of damaging the unborn child. (nonylphenol)
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.

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**

Harmful 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
1477-55-0	1,3-Benzendimethanamin					
	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 mg/l 15,2	48 h	Daphnia magna		
69-72-7	Salicylic acid					
	Acute crustacea toxicity	EC50 870 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
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	1,9

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 8 of 11

12.6. 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****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from 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:	UN2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (ALPHA,ALPHA-DIAMINO-M-XYLENE)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8



Classification code:	C7
Special Provisions:	274
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Other applicable information (land transport)E1
E2**Inland waterways transport (ADN)**

14.1. UN number:	UN2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (ALPHA,ALPHA-DIAMINO-M-XYLENE)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8



Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 9 of 11

Classification code: C7
 Special Provisions: 274
 Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1
 E2

Marine transport (IMDG)

14.1. UN number: UN2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
 (ALPHA,ALPHA-DIAMINO-M-XYLENE)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: 223, 274
 Limited quantity: 5 L
 EmS: F-A, S-B

Other applicable information (marine transport)

E1
 E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
 (ALPHA,ALPHA-DIAMINO-M-XYLENE)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: A3 A803
 Limited quantity Passenger: 1 L
 IATA-packing instructions - Passenger: 852
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 856
 IATA-max. quantity - Cargo: 60 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 10 of 11

14.6. Special precautions for user

SECTION 6: Accidental release measures
 SECTION 7: Handling and storage
 SECTION 8: Exposure controls/personal protection

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****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 46: nonylphenol

2004/42/EC (VOC): 93 % (976,5 g/l)

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

Additional information

1-4

15.2. Chemical safety assessment

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

SECTION 16: Other information**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%

Relevant H and EUH statements (number and full text)

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.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KÖSTER LF-BM B

Revision date: 02.03.2018

Product code: CT160b

Page 11 of 11

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 present level of our knowledge. It does not, however, give assurances 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.)