

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**KÖSTER IN 7 B**

Revision date: 02.03.2018

Product code: IN270b

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

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**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	
<b>1.4. Emergency telephone number:</b>	+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:

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container to according to local regulations.

**Additional advice on labelling**

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

**2.3. Other hazards**

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**

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### Chemical characterization

amines.

### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
670241-72-2	Benzoicacid nonylester, branched and linear			< 90 %
	447-010-5		01-0000018876-65	
	Aquatic Chronic 2; H411			
6425-39-4	2,2'-Dimorpholinyl-diethylether			< 10 %
	229-194-7			
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			

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! Remove affected person from the danger area and lay down.

#### After inhalation

Provide fresh air.

#### After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### 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. Suitable extinguishing media: Dry extinguishing powder. Foam.

#### Unsuitable extinguishing media

High power water jet.

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

The product itself does not burn. Special exposure hazards arising from the substance itself, combustion

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products, resulting gases: amines. Nitrogen oxides (NO<sub>x</sub>).

#### **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.

### **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 handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. 0701.B007009

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

##### **Further information on handling**

No special handling instructions are necessary.

#### **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.

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

#### **8.1. Control parameters**

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#### DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
670241-72-2	Benzoicacid nonylester, branched and linear		
Worker DNEL, long-term	dermal	systemic	7,77 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	59,3 mg/m <sup>3</sup>

#### PNEC values

CAS No	Substance	
Environmental compartment	Value	
670241-72-2	Benzoicacid nonylester, branched and linear	
Freshwater	0,0043 mg/l	
Marine water	0,00043 mg/l	
Freshwater sediment	0,000262 mg/kg	
Secondary poisoning	69,99	
Micro-organisms in sewage treatment plants (STP)	10 mg/l	
Soil	0,32 mg/kg	

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

##### Appropriate engineering controls

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

##### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. 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: Paste  
 Colour: transparent  
 Odour: stinging

##### Changes in the physical state

Initial boiling point and boiling range: > 300 °C

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Flash point: 161 °C

**Explosive properties**

not explosive.

Ignition temperature: 370 °C

**Oxidizing properties**

Not oxidising.

Vapour pressure:  
(at 20 °C) 0,00024 hPaDensity (at 23 °C): 1 g/cm<sup>3</sup>Viscosity / dynamic:  
(at 23 °C) > 50 mPa·s**9.2. Other 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**

Violent reaction with: Acid.

**10.4. Conditions to avoid**

No risks worthy of mention.

**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 toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
670241-72-2	Benzoicacid nonylester, branched and linear				
	oral	LD50 > 2500 mg/kg	Rat	OECD TG 423	
	dermal	LD50 > 2000 mg/kg	Rat	OECD 402	
6425-39-4	2,2'-Dimorpholinyl-diethylether				
	oral	LD50 > 2000 mg/kg	Rat		

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**Irritation and corrosivity**

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

**Sensitising effects**

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

**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**

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
670241-72-2	Benzoicacid nonylester, branched and linear					
	Acute fish toxicity	LC50 mg/l	> 1,23	96 h	Cyprinus carpio (Common Carp)	OECD 203
	Acute crustacea toxicity	EC50 mg/l	> 2,2	48 h	Daphnia magna	OECD 202
6425-39-4	2,2'-Dimorpholinyl-diethylether					
	Acute fish toxicity	LC50 mg/l	> 2150	96 h	Brachydanio rerio (zebra-fish)	

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**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.

**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.

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**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**

Water (with cleaning agent). Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isononylbenzoat)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Classification code: M6  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 90  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isononylbenzoat)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Classification code: M6  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 L  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isononylbenzoate)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9

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Special Provisions: 274, 335, 969  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
 (Isononylbenzoate)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: A97 A158 A197  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y964  
 Excepted quantity: E1  
 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)**

No dangerous good in sense of these transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Isononylbenzoat

**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****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**Additional information**

1-4

**15.2. Chemical safety assessment**

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



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**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)**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic 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 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.

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