



## SAFETY DATA SHEET

### According to GHS Globally Harmonised System

369

#### 01. GENERAL INFORMATION

##### Product information:

Chemical characterization: 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone  
CAS Number: 119313-12-1

#### 02. SUMMARY OF HAZARDS

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 03. COMPONENTS

CAS Number 119313-12-1  
Product Name 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone  
Content Symbol(s) R-Phrase(s) 100 % NR50/53

#### 04. PHYSICAL AND CHEMICAL DATA

##### Form

powder Colour	light	
yellow Odour	typical	
Melting/freezing temperature	110 - 114 °C	
Density	22 °C 1.21 g/cm <sup>3</sup>	EEC A 3
Flash point	> 150 °C DIN 51758	
Ignition Temperature	350 °C	EEC A 10
Assessment for ignition temperature	not highly flammable	EEC A 10
Oxidising properties	not oxidizing	EEC A 17
Assessment for self-ignition	no self-ignition	EEC A 16
Water solubility	20 °C 5.9 mg/l	EEC A 6
Vapour pressure	25 °C 6E-7 Pa	OECD 104 / EEC A 4
Partition coefficient; Log Pow	25 °C 2.91	OECD 107 / EEC A 8
pH-value	not tested	

Explosive properties not explosive EEC A 14

#### 05. Handling and Storage

Dangerous for the environment. Handle and open container with care. Avoid dust formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace. Storage Keep away from food and drink. Store in the original container securely closed. Protect from light. Danger! Explosion risk. Risk of explosion if an air-dust mixture forms. Empty only into earthed containers.



If container is larger than 2000 liter in volume, or when flammable solvents are present inert container or use a system otherwise designed to prevent or contain an explosion -- seek expert advice.

## 06. FIRE AND EXPLOSION

### Suitable extinguishing media

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry powder

### Extinguishing media which must not be used for safety reasons

High volume water jet

### Exposure hazards

Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water.

Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.

### Special protective equipment for firefighters

Wear full protective clothing. Wear self-contained breathing apparatus. Additives Division

### Hazardous decomposition products

Oxides of carbon, Oxides of nitrogen (NO<sub>x</sub>), Toxic gases/vapours

## 07. Stability and Reactivity

### Decomposition temperature

280 °C

### Conditions to avoid

Static discharges.

### Materials to avoid

Strong acids, strong bases and strong oxidising agents.

### Hazardous decomposition products

Oxides of carbon  
Oxides of nitrogen (NO<sub>x</sub>), Toxic gases/vapours

## 08. PROTECTIVE EQUIPMENT / CONTROL MEASURES

### Technical measures/Precautions

No special precautions required.

### Respiratory protection

Effective dust mask

### Hand protection

Protective gloves

### Eye protection

Suitable goggles or face protection

### Skin and body protection

Working clothes , Closed footwear

## 09. EMERGENCY AND FIRST AID

### Skin contact

Wash off with soap and plenty of water. Do not use organic solvents.

### Eye contact

Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.



#### Inhalation

Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. In case of indisposition, seek medical attention. In case of prolonged exposure, seek medical attention.

#### Ingestion

Immediately give plenty (> 500 ml) of water (if possible charcoal slurry). In case of spontaneous vomiting be sure that vomitus can freely drain due of danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in cases of unconsciousness or convulsion. Seek medical advice.

### 10. Toxicological Information

<b>Acute oral toxicity</b> Rat	LD50 > 2000 mg/kg	OECD 401
<b>Acute dermal irritation/corrosion</b> Rabbit	not irritant	OECD 404
<b>Acute eye irritation/corrosion</b> Rabbit	not irritant	OECD 405
<b>Acute skin sensitization</b> Guinea pig	not sensitizing	OECD 406

### 11. Disposal Considerations

#### Waste from residues / unused products

Residual chemical should be disposed by incineration or by other modes of disposal in compliance with local legislation.

#### Contaminated packaging

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

### 12. Transport Information

<b>Flash point</b>	> 150 °C
<b>ADR/RID</b>	Class: 9 Cipher: 12C UN-No: 3077
<b>IMO</b>	Class: Free
<b>ICAO</b>	Class: Free



### 13. Regulatory Information

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<b>EC-Number</b>	404-360-3
<b>Contains</b>	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone
<b>Classification</b>	Classification according to EU, Annex 1; EC Label <b>Symbol(s)</b>
N Dangerous for the environment	
<b>R-Phrase(s)</b>	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S-Phrase(s) S60</b>	This material and/or its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

### 14. DISCLAIMERS

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This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties and may not comply with national legislation; shall be used only as a source of information.

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