

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 27.01.2022

Version: 2.0

Product: **Lugalvan® BPC 48**

(ID no. 30042711/SDS\_GEN\_00/EN)

Date of print 01.08.2022

## 1. Identification

### Product identifier

**Lugalvan® BPC 48**

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Raw material for the chemical-technical industry

### Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-57579

E-mail address: emd-ems-ehs-masterdata@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

No need for classification according to GHS criteria for this product.

### Label elements

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Globally Harmonized System (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

**Other hazards**According to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered.

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**3. Composition/Information on Ingredients****Substances**

Not applicable

**Mixtures**Chemical nature

Aqueous solution based on: 1-Benzyl-3-carboxylatopyridinium

Hazardous ingredients (GHS)

According to UN GHS criteria

## Nicotinic acid

Content (W/W): > 0 % - < 3 %	Eye Dam./Irrit. 2B
CAS Number: 59-67-6	Aquatic Acute 3
EC-Number: 200-441-0	H320, H402

## Sodium chloride

Content (W/W): >= 7 % - < 15 %	Acute Tox. 5 (oral)
CAS Number: 7647-14-5	H303
EC-Number: 231-598-3	

For the classifications not written out in full in this section the full text can be found in section 16.

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**4. First-Aid Measures****Description of first aid measures**

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

**Most important symptoms and effects, both acute and delayed**

Symptoms: (Further) symptoms and / or effects are not known so far

**Indication of any immediate medical attention and special treatment needed**

Treatment: Symptomatic treatment (decontamination, vital functions).

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**5. Fire-Fighting Measures****Extinguishing media**Suitable extinguishing media:  
water spray, dry powder, foam**Special hazards arising from the substance or mixture**

harmful vapours, carbon oxides, nitrogen oxides

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Advice for fire-fighters**Special protective equipment:  
Wear a self-contained breathing apparatus.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

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**6. Accidental Release Measures**

High risk of slipping due to leakage/spillage of product.

**Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Information regarding personal protective measures, see section 8.

**Environmental precautions**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with suitable absorbent material.

Dispose of absorbed material in accordance with regulations.

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**7. Handling and Storage****Precautions for safe handling**

No special measures necessary provided product is used correctly.

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Protection against fire and explosion:

No special precautions necessary.

### **Conditions for safe storage, including any incompatibilities**

Suitable materials for containers: Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed. Keep in a cool place.

### **Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## **8. Exposure Controls/Personal Protection**

### **Control parameters**

#### Components with occupational exposure limits

59-67-6: Nicotinic acid

7647-14-5: Sodium chloride

### **Exposure controls**

#### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	liquid	
Colour:	yellow to brown	
Odour:	product specific	
Odour threshold:		
	not determined	
pH value:	5,5 - 6,5 (23 °C) (measured with the undiluted substance)	(DIN 19268)
Melting point:	approx. -10 °C	(DIN ISO 3013)
onset of boiling:	approx. 100 °C	
Flash point:	> 100 °C	(ISO 2719)
	Aqueous preparation	
Evaporation rate:		
	not determined	
Flammability:	not flammable	
Lower explosion limit:		
	For liquids not relevant for classification and labelling.	
Upper explosion limit:		
	For liquids not relevant for classification and labelling.	
Ignition temperature:	> 200 °C	(DIN 51794)
Vapour pressure:	23 mbar (20 °C) contains water	
Density:	approx. 1,2 g/cm <sup>3</sup> (20 °C)	(DIN 51757)
Relative density:	approx. 1,2 (20 °C)	
Relative vapour density (air):		
	not determined	
Solubility in water:	miscible	
Partitioning coefficient n-octanol/water (log Kow):		
	not applicable	
Self ignition:	not self-igniting	
Thermal decomposition:	not determined	
Viscosity, dynamic:		
	not determined	
Viscosity, kinematic:	< 1.000 mm <sup>2</sup> /s (20 °C)	
Explosion hazard:	not explosive	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

### Other information

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Self heating ability: It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.

Grain size distribution: The substance / product is marketed or used in a non solid or granular form.

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### Conditions to avoid

See SDS section 7 - Handling and storage.

### Incompatible materials

Substances to avoid:

strong oxidizing agents, strong bases, strong acids, reactive chemicals

### Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LD50 rat (dermal):

not determined

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### Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Respiratory/Skin sensitization

Assessment of sensitization:

Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria.

### Carcinogenicity

Assessment of carcinogenicity:

Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

### Reproductive toxicity

Assessment of reproduction toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

### Developmental toxicity

Assessment of teratogenicity:

Based on the ingredients, there is no suspicion of a teratogenic effect.

### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

### Aspiration hazard

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No aspiration hazard expected.

#### Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

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## 12. Ecological Information

### **Toxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Leuciscus idus*

Aquatic invertebrates:

LC50 (48 h), daphnia

not determined

Aquatic plants:

EC50 (72 h), algae

not determined

Microorganisms/Effect on activated sludge:

EC10 (17 h) > 1.000 mg/l (DIN 38412 Part 8)

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

Easily eliminated from water.

Elimination information:

> 95 % DOC reduction (OECD 302B; ISO 9888; 88/302/EEC, part C)

### **Bioaccumulative potential**

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

### **Mobility in soil**



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Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

### Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

### Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### Additional information

Sum parameter

Chemical oxygen demand (COD): 460 mg/g

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not release untreated into natural waters.

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

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## 13. Disposal Considerations

### Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Untamminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## 14. Transport Information

### Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

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Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for user: None known

**RID**

Not classified as a dangerous good under transport regulations  
 UN number or ID number: Not applicable  
 UN proper shipping name: Not applicable  
 Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for user: None known

**Inland waterway transport****ADN**

Not classified as a dangerous good under transport regulations  
 UN number or ID number: Not applicable  
 UN proper shipping name: Not applicable  
 Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for user: None known

**Transport in inland waterway vessel**

Not evaluated

**Sea transport****IMDG**

Not classified as a dangerous good under transport regulations  
 UN number or ID number: Not applicable  
 UN proper shipping name: Not applicable  
 Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for user: None known

**Air transport****IATA/ICAO**

Not classified as a dangerous good under transport regulations  
 UN number or ID number: Not applicable

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UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

## 15. Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

## 16. Other Information

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Eye Dam./Irrit.	Serious eye damage/eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Acute Tox.	Acute toxicity
H320	Causes eye irritation.
H402	Harmful to aquatic life.
H303	May be harmful if swallowed.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.