

# Safety data sheet

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

Date / Revised: 16.07.2018

Version: 3.0

Product: **Golpanol® BOZ Cryst.**

(ID no. 30042612/SDS\_GEN\_00/EN)

Date of print 17.07.2018

## 1. Identification

### Product identifier

### **Golpanol® BOZ Cryst.**

Chemical name: but-2-yne-1,4-diol

CAS Number: 110-65-6

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

Relevant identified uses: chemical for industrial metal-working

Recommended use: for industrial use only

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

#### Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-44676

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

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Acute Tox. 3 (Inhalation - dust)  
Acute Tox. 3 (oral)  
Acute Tox. 3 (dermal)  
Skin Corr./Irrit. 1B  
Eye Dam./Irrit. 1  
Skin Sens. 1  
STOT SE 3 (irritating to respiratory system)  
STOT RE (Liver, Kidney, Spleen) 2  
Aquatic Acute 3

#### Specific Concentration Limits According to UN GHS Criteria

Skin Corr./Irrit. 2: 25 - < 50 %  
Eye Dam./Irrit. 2: 25 - < 50 %  
Skin Corr./Irrit. 1B: >= 50 %

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

## **Label elements**

### Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs (Liver, Kidney, Spleen) through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust/gas/mist/vapours.
P273	Avoid release to the environment.
P264	Wash with plenty of water and soap thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

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**Precautionary Statements (Response):**

P310 Immediately call a POISON CENTER or doctor/physician.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**Precautionary Statements (Storage):**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Precautionary Statements (Disposal):**

P501 Dispose of contents/container to hazardous or special waste collection point.

According to UN GHS criteria

Hazard determining component(s) for labelling: but-2-yne-1,4-diol

**Other hazards**According to UN GHS criteria

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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### 3. Composition/Information on Ingredients

**Substances**Chemical nature

but-2-yne-1,4-diol (Content (W/W): >= 95 %)  
CAS Number: 110-65-6  
EC-Number: 203-788-6  
INDEX-Number: 603-076-00-9

Hazardous ingredients (GHS)

According to UN GHS criteria

but-2-yne-1,4-diol

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Content (W/W): >= 95 % - <= 100 %	Acute Tox. 3 (Inhalation - dust)
CAS Number: 110-65-6	Acute Tox. 3 (oral)
EC-Number: 203-788-6	Acute Tox. 3 (dermal)
INDEX-Number: 603-076-00-9	Skin Corr./Irrit. 1B
	Eye Dam./Irrit. 1
	Skin Sens. 1
	STOT SE 3 (irr. to respiratory syst.)
	STOT RE (Liver, Kidney, Spleen) 2
	Aquatic Acute 3
	H317, H335, H373, H314, H301 + H311 + H331, H402
	<u>Specific concentration limit:</u>
	Skin Corr./Irrit. 2: 25 - < 50 %
	Eye Dam./Irrit. 2: 25 - < 50 %
	Skin Corr./Irrit. 1B: >= 50 %

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

## Mixtures

Not applicable

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## 4. First-Aid Measures

### Description of first aid measures

Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

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

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Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. Pulmonary odema prophylaxis. Medical monitoring for at least 24 hours.

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**5. Fire-Fighting Measures****Extinguishing media**

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

**Special hazards arising from the substance or mixture**

nitrogen oxides, carbon oxides

The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated.

**Advice for fire-fighters**

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

Avoid inhalation. Avoid contact with the skin, eyes and clothing. Personal protection: wear a tightly closed chemical protection suit and a self-contained breathing apparatus.

**Environmental precautions**

Do not empty into drains.

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

For small amounts: Sweep/shovel up.

For large amounts: Dampen, pick up mechanically and dispose of.

Avoid raising dust. Cleaning operations should be carried out only while wearing breathing apparatus.

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

Ensure thorough ventilation of stores and work areas.

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Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Avoid dust formation.

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

Segregate from strong acids. Segregate from strong bases. Segregate from heavy-metal salts.

Segregate from strong oxidizing agents.

Further information on storage conditions: Protect against moisture.

Protect contents from the effects of light.

Protect from air.

Storage stability:

Storage temperature: &lt; 30 °C

Storage duration: 12 Months

Protect against moisture.

Tends to cake.

From the data on storage duration in this safety data sheet no agreed statement regarding the warrantee of application properties can be deduced.

Protect from temperatures above: 30 °C

**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

110-65-6: but-2-yne-1,4-diol

**Exposure controls**Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2) Consider the risk management measures as outlined in the exposure scenario.

Hand protection:

Chemical resistant protective gloves (EN 374)

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

butyl rubber (butyl) - 0.7 mm coating thickness

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

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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. Consider the risk management measures as outlined in the exposure scenario.

**Eye protection:**

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield., Consider the risk management measures as outlined in the exposure scenario.

**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**

Do not breathe dust. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Take off immediately all contaminated clothing.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	solid	
Colour:	colourless to slightly yellow	
Odour:	almost odourless	
Odour threshold:	Not determined since toxic by inhalation.	
pH value:	4 - 7,5 (100 g/l, 23 °C)	(DIN ISO 976)
Melting point:	approx. 56 °C	(DTA)
Boiling range:	125 - 127 °C (3 mbar)	(DIN 53406)
Flash point:	not applicable, the product is a solid	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	not flammable	(Directive 84/449/EEC, A.10)
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:	approx. 410 °C	(DIN 51794)

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Vapour pressure:	1,33 mbar (102 °C)	
Density:	1,11 g/cm <sup>3</sup> (20 °C)	
Relative density:	Literature data. 1,11 (20 °C)	
Relative vapour density (air):	Literature data. not applicable	
Solubility in water:	completely soluble	
Partitioning coefficient n-octanol/water (log K <sub>ow</sub> ):	-0,73 (25 °C; pH value: 6 - 8)	(OECD Guideline 107)
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
	Temperature: 335 °C Pressure: 1.013 hPa Literature data.	Test type: Self-ignition at high temperatures.
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	not applicable, the product is a solid	
Explosion hazard:	not explosive	(Directive 92/69/EEC, A.14)
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

**Other information**

Self heating ability:	It is not a substance capable of spontaneous heating.	
Bulk density:	approx. 500 kg/m <sup>3</sup> 515 kg/m <sup>3</sup>	(DIN ISO 697) (DIN EN ISO 60)
Miscibility with water:	miscible in all proportions	
pK <sub>A</sub> :	not applicable, The substance does not dissociate.	
Adsorption/water - soil:	KOC: 1; log KOC: 0	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Grain size distribution:	Test substance	The substance / product is marketed or used in a non solid or granular form.
Molar mass:	86,09 g/mol	
Angle of repose:	33 °	(funnel test (lab for material testing))



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## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:	Corrosive effect on: carbon steel (iron)
Formation of flammable gases:	Remarks: Forms no flammable gases in the presence of water.

### Chemical stability

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

### Possibility of hazardous reactions

Reacts with alkalis. Reacts with acids. Reacts with heavy metal salts. Reacts with oxidizing agents.

### Conditions to avoid

Temperature: > 80 °C

### Incompatible materials

Substances to avoid:  
heavy metal salts, acids, bases, alkalies, oxidizing agents

### 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:

Of pronounced toxicity after single ingestion. Of pronounced toxicity after short-term inhalation. Of pronounced toxicity after short-term skin contact.

Experimental/calculated data:

LD50 rat (oral): 132 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): 0,69 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

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LD50 rat (dermal): 659 mg/kg (OECD Guideline 402)

LD50 mouse (intraperitoneal): approx. 100 mg/kg

### Irritation

Assessment of irritating effects:

Corrosive! Damages skin and eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Corrosive. (BASF-Test)

An aqueous solution was tested.

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

### Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible. EU-classification

Experimental/calculated data:

Patch-Test human: skin sensitizing (Human patch test)

### Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammals. The substance was not mutagenic in mammalian cell culture.

### Carcinogenicity

Assessment of carcinogenicity:

No applicable information available.

### Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

### Developmental toxicity

Assessment of teratogenicity:

In animal studies the substance did not cause malformations.

### Experiences in humans

Experimental/calculated data:

Sensitization described in isolated cases.

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Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

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

Assessment of repeated dose toxicity:

Repeated oral exposure may affect certain organs. Damages the liver. Damages the kidneys.  
Damages the spleen.Aspiration hazard

not applicable

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 53,6 mg/l, Pimephales promelas (Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

LC50 (96 h) 15,5 mg/l, other (other)

Nominal concentration.

Aquatic invertebrates:

EC50 (48 h) 26,79 mg/l, Daphnia magna

Nominal concentration.

Aquatic plants:

EC50 (72 h) 1.058 mg/l (growth rate), Scenedesmus subspicatus (DIN 38412 Part 9, static)

Nominal concentration.

EC10 (72 h) 346 mg/l (growth rate), Scenedesmus subspicatus (DIN 38412 Part 9, static)

Nominal concentration.

Microorganisms/Effect on activated sludge:

EC10 (17 h) 1.993,3 mg/l, Pseudomonas putida (DIN 38412 Part 8, static)

Nominal concentration.

EC50 (17 h) 3.940 mg/l, Pseudomonas putida (DIN 38412 Part 8, static)

Nominal concentration.

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Chronic toxicity to fish:

Study scientifically not justified. No data available.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 15 mg/l, Daphnia magna (OECD Guideline 211, semistatic)  
Nominal concentration.

Assessment of terrestrial toxicity:

Toxic effects have been observed in studies with other terrestrial non-mammalians.

### **Persistence and degradability**

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

Readily biodegradable (according to OECD criteria).

Elimination information:

91 % DOC reduction (19 d) (OECD 301E; 84/449/EEC, C.3) (aerobic, activated sludge, domestic)

90 - 100 % DOC reduction (8 d) (OECD Guideline 302 B) (activated sludge, industrial)

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis):

The product has not been tested. The statement has been derived from the structure of the product.

### **Bioaccumulative potential**

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

No data available.

### **Mobility in soil**

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). Self classification

### **Other adverse effects**

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The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### Additional information

Other ecotoxicological advice:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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## 13. Disposal Considerations

### Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.

A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.

The waste code in accordance with the European waste catalog (EWC) must be specified in cooperation with disposal agency/manufacturer/authorities.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## 14. Transport Information

### Land transport

ADR

UN number	UN2716
UN proper shipping name:	1,4-BUTYNEDIOL
Transport hazard class(es):	6.1
Packing group:	III
Environmental hazards:	no
Special precautions for user:	Tunnel code: E

RID

UN number	UN2716
UN proper shipping name:	1,4-BUTYNEDIOL
Transport hazard class(es):	6.1
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

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**Inland waterway transport**

ADN

UN number	UN2716
UN proper shipping name:	1,4-BUTYNEDIOL
Transport hazard class(es):	6.1
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

**Transport in inland waterway vessel**

Not evaluated

**Sea transport**

IMDG

UN number:	UN 2716
UN proper shipping name:	1,4-BUTYNEDIOL
Transport hazard class(es):	6.1
Packing group:	III
Environmental hazards:	no
	Marine pollutant: NO
Special precautions for user:	None known

**Air transport**

IATA/ICAO

UN number:	UN 2716
UN proper shipping name:	1,4-BUTYNEDIOL
Transport hazard class(es):	6.1
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

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**Further information**

Taking into account a normal duration of transport of 90 days the following statement is valid: The product is that stable, that in packaging at temperature of 50 ° C and in tanks at temperature of 45 ° C no dangerous polymerization occurs.

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**15. Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture**Not applicable

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**16. Other Information**

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

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs (Liver, Kidney, Spleen) through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H402	Harmful to aquatic life.

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.

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