

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® CoMol Cerrado SL



Version: 2.6  
Date of last issue: 23.12.2022  
Date of first issue: 18.07.2017

Revision Date:  
06.04.2023

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Basfoliar® CoMol Cerrado SL

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

Use of the Substance/Mixture : Fertilizer

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

Company : COMPO EXPERT GmbH  
Krögerweg 10  
D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person responsible for the SDS : info@compo-expert.com

#### 1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h  
Telephone: +49 (0) 6132 - 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1

Carcinogenicity, Category 2

Acute aquatic toxicity, Category 3

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H402 Harmful to aquatic life.
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. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection.  <b>Response:</b> P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P362 + P364 Take off contaminated clothing and wash it before reuse.  <b>Storage:</b> P405 Store locked up. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards**  
None known.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

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Chemical nature : Aqueous solution of metal salts.

### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
cobalt sulphate	10124-43-3 233-334-2	Carc. 1B; H350i Acute Tox. 4; H302 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Muta. 2; H341 Repr. 1B; H360F  M-Factor (Acute aquatic toxicity): 10  specific concentration limit  Carc. 1B; H350i  >= 0,01 %	>= 5 - <= 10
citric acid	77-92-9 201-069-1 01-2119461715-35-XXXX	Eye Irrit. 2; H319 STOT SE 3; H335	>= 10 - <= 20

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Sodium Hydroxide	1310-73-2	Skin Corr. 1A; H314	>= 0,5 - <= 1
	215-185-5		
	01-2119457892-27-XXXX	specific concentration limit	
		Skin Corr. 1A	
		>= 5 %	
		Skin Corr. 1B	
		2 - < 5 %	
		Skin Irrit. 2	
		0,5 - < 2 %	

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Take off immediately all contaminated clothing.  
Wash contaminated clothing before re-use.
- If inhaled : Fresh air.  
Obtain medical attention.
- In case of skin contact : Wash off with soap and water.  
Consult a doctor if skin irritation persists.
- In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- If swallowed : Do NOT induce vomiting.  
Drink plenty of water.  
Fresh air.  
Obtain medical attention.

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

- Symptoms : No information available.

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

Treatment : Treat symptomatically.

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media : The product is not flammable.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during firefighting : Heating or fire can release toxic gas.

Hazardous combustion products : Cobalt compounds

#### **5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.  
Keep people away from and upwind of spill/leak.

#### **6.2 Environmental precautions**

Environmental precautions : Product should not reach open waters.  
Do not allow product to enter the sewage system

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Apply means of neutralization.  
Dispose contaminated material waste according to chapter 13.  
Clean thoroughly.  
Flush with water.

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### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Handle and open container with care.
- Advice on protection against fire and explosion : No special precautions required.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : Keep container tightly closed. Keep away from heat.
- Advice on common storage : Keep away from food, drink and animal feedingstuffs.
- Storage class (TRGS 510) : 6.1B, Non combustible substances, toxic
- Recommended storage temperature : 5 - 35 °C

### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Sodium Hydroxide	1310-73-2		2 mg/m <sup>3</sup>	DE TRGS 900
			2 mg/m <sup>3</sup>	TRGS 900 (DE)

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Basfoliar® CoMol Cerrado SL				
Remarks:	No data available			

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### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Basfoliar® CoMol Cerrado SL		
Remarks:	This information is not available.	

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Respiratory protection : respiratory protection only if aerosol or dust is formed.

Protective measures : Handle in accordance with good industrial hygiene and safety practice.

### Environmental exposure controls

General advice : Product should not reach open waters.  
Do not allow product to enter the sewage system

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : violet

Odour : odourless

pH : 5 - 5,5, (25 °C)

Density : ca. 1,35 - 1,45 g/cm<sup>3</sup> (20 °C)

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Solubility(ies)	
Water solubility	: completely miscible
Decomposition temperature	: No decomposition if stored and applied as directed.
Explosive properties	: Not explosive
Oxidizing properties	: not fire-propagating

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Smoke  
Heavy metal compounds

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

#### Components:

#### **cobalt sulphate:**

Acute oral toxicity : LD50 Oral (Rat): 582 mg/kg

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### **citric acid:**

Acute oral toxicity : LD50 Oral (Rat): 3.000 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Irritating to skin.

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Components:**

##### **cobalt sulphate:**

Remarks: May cause sensitisation of susceptible persons by skin contact or by inhalation of dust.

Assessment: May cause allergic respiratory reaction., May cause allergic skin reaction.

### **germ cell mutagenicity**

#### **Components:**

##### **cobalt sulphate:**

Germ cell mutagenicity-  
Assessment : In vitro tests showed mutagenic effects

### **Carcinogenicity**

#### **Components:**

##### **cobalt sulphate:**

Carcinogenicity -  
Assessment : May cause cancer by inhalation.

### **Reproductive toxicity**

#### **Components:**

##### **cobalt sulphate:**

Effects on fertility : Species: Mouse  
Application Route: by inhalation

Remarks: Possible risk of impaired fertility.

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Reproductive toxicity - Assessment : May damage fertility.  
Experiments have shown reproductive toxicity effects on laboratory animals.

### Aspiration hazard

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available

### Further information

No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **cobalt sulphate:**

Toxicity to fish : LC50 (Fish): 3,75 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 49,6 mg/l  
Exposure time: 48 h

LC50 (other): 2,07 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 10

##### **citric acid:**

Toxicity to fish : LC50 (golden orfe): 440 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.535 mg/l  
Exposure time: 24 h

Toxicity to algae : (Scenedesmus quadricauda (Green algae)): 640 mg/l  
Exposure time: 7 DAY

Toxicity to bacteria : EC0 (Pseudomonas putida): 10.000 mg/l  
Exposure time: 16 h

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## 12.2 Persistence and degradability

**Product:**

Biodegradability : Result: Not readily biodegradable.

## 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

Not relevant

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

**Product:**

Additional ecological information : Do not flush into surface water or sanitary sewer system.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.  
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Observe national and local legal requirements.  
Suitable cleaning agents  
Water

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## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

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### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : contains cobalt sulphate

### 15.2 Chemical Safety Assessment

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## SECTION 16: Other information

### Full text of H-Statements

H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H341	: Suspected of causing genetic defects.
H350i	: May cause cancer by inhalation.
H360F	: May damage fertility.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Muta.	: Germ cell mutagenicity
Repr.	: Reproductive toxicity
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation

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STOT SE : Specific target organ toxicity - single exposure

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

#### Further information

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