

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

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® Soja 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)

Serious eye damage, Category 1 H318: Causes serious eye damage.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

# Material Safety Data Sheet

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Revision Date:  
06.04.2023

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with  
water for several minutes. Remove contact  
lenses, if present and easy to do. Continue  
rinsing.  
P310 Immediately call a POISON CENTER or  
doctor/ physician.  
**Disposal:**  
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

Chemical nature : Liquid mixture of organic and inorganic salts of fertilizers.

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Zinc sulphate, monohydrate	7446-19-7  231-793-3  01-2119474684-27-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - <= 5

# Material Safety Data Sheet

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## Basfoliar® Soja SL



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

manganese sulphate (1:1)	7785-87-7 232-089-9 01-2119456624-35-XXXX	STOT RE 2; H373 Aquatic Chronic 2; H411 Eye Dam. 1; H318	>= 1 - <= 5
Boric acid	11113-50-1 234-343-4 01-2119486683-25-XXXX	Repr. 1B; H360FD	>= 2 - <= 3

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.
- If inhaled : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.  
By disorders:  
Obtain medical attention.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
If symptoms persist, seek medical advice.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
If swallowed, seek medical advice immediately and show this container or label.

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

- Symptoms : Allergic appearance  
Sensitisation

## Basfoliar® Soja SL



Version: 1.3  
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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 : In case of combustion evolution of dangerous gases possible.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
In the event of fire and/or explosion do not breathe fumes.

Further information : Cool endangered containers with water-spray.  
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 : Avoid contact with skin, eyes and clothing.  
Ensure adequate ventilation.  
In case of involuntary exposition of the product contact producer or supplier.

### 6.2 Environmental precautions

Environmental precautions : Do not empty into drains.  
Product should not reach open waters.

### 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).

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3

Date of last issue: 23.12.2022

Date of first issue: 05.02.2020

Revision Date:

06.04.2023

- Advice on safe handling : Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : No special precautions required.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Hands and/or face should be washed before breaks and at the end of the shift.

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

- Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place.
- Advice on common storage : Not relevant
- Storage class (TRGS 510) : 12, Non Combustible Liquids

### 7.3 Specific end use(s)

- Specific use(s) : Always read the label and product information before use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
manganese sulphate (1:1)	manganese sulphate	(Inhalable fraction)	0,5 mg/m <sup>3</sup>	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Inhalable fraction)	0,5 mg/m <sup>3</sup> (Manganese)	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
			0,5 mg/m <sup>3</sup>	
Boric acid	11113-50-1	TWA	2,6 mg/m <sup>3</sup>	DE TRGS 900
		STEL	5,2 mg/m <sup>3</sup>	DE TRGS 900
			0,5 mg/m <sup>3</sup>	

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

No data available Mangansulfat	7785-87-7, 7785-87-7	manganese: 20 µg/l (Blood)	Immediately after exposition or after working hours, In case of long-term exposition: after more than one shift	TRGS 903
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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Basfoliar® Soja SL				
Remarks:	This information is not available.			

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

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

## 8.2 Exposure controls

### Engineering measures

Provide adequate ventilation.

### Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : For prolonged or repeated contact use protective gloves. Chemical resistant protective gloves (EN 374). butyl rubber (butyl) - 0.7 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness polyvinylchloride (PVC) - 0.7 mm coating thickness The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in

**Basfoliar® Soja SL**



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

---

advance and has therefore to be checked prior to the application.

Skin and body protection : Protective suit

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

**Environmental exposure controls**

General advice : Do not empty into drains.  
Product should not reach open waters.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state	: liquid
Colour	: pink
Odour	: very faint
pH	: ca. 2,6, (20 °C)
melting range	: ca. 0 °C
Boiling range	: ca. > 100 °C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: No data available
Relative vapour density	: No data available

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3

Date of last issue: 23.12.2022

Date of first issue: 05.02.2020

Revision Date:

06.04.2023

---

Density	: ca. 1,32 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: To avoid thermal decomposition, do not overheat.
Viscosity	
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

### 9.2 Other information

Surface tension	: No data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution.

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

Conditions to avoid	: No decomposition if stored and applied as directed.
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### 10.5 Incompatible materials

Materials to avoid	: Strong oxidizing agents Strong bases
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon oxides
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Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

---

## SECTION 11: Toxicological information

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

#### Acute toxicity

**Product:**

Acute oral toxicity : Remarks: This information is not available.

**Components:**

**manganese sulphate (1:1):**

Acute oral toxicity : LD50 (Rat): 2.150 mg/kg

**Boric acid:**

Acute oral toxicity : LD50 (Mouse): 3.450 mg/kg

LD50 (Rat): 2.660 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2 mg/l

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

#### Skin corrosion/irritation

**Product:**

Result: No skin irritation

Remarks: Calculation method

**Components:**

**Boric acid:**

Species: Rabbit

Result: No skin irritation

#### Serious eye damage/eye irritation

**Product:**

Result: Eye irritation

Remarks: Calculation method

**Components:**

**Boric acid:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3

Date of last issue: 23.12.2022

Date of first issue: 05.02.2020

Revision Date:

06.04.2023

---

### Respiratory or skin sensitisation

#### **Product:**

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

#### **Components:**

##### **Boric acid:**

Method: OECD Test Guideline 406

Result: non-sensitizing

### germ cell mutagenicity

#### **Product:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects  
The product has not been tested. The information is derived from the properties of the individual components.

#### **Components:**

##### **Boric acid:**

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay  
Result: Mutagenicity tests revealed no genotoxic potential.  
Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity

#### **Product:**

Remarks: Contains no ingredient listed as a carcinogen

#### **Components:**

##### **Boric acid:**

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 451

Remarks: Animal testing did not show any carcinogenic effects.

### Reproductive toxicity

#### **Product:**

Effects on fertility :  
Remarks: No toxicity to reproduction

Effects on foetal : Remarks: No human information is available.

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

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development

### **Components:**

#### **Boric acid:**

Effects on foetal  
development

: Remarks: Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects.

Reproductive toxicity -  
Assessment

: May damage fertility. May damage the unborn child.

### **STOT - single exposure**

#### **Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

#### **Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **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:**

##### **manganese sulphate (1:1):**

Toxicity to daphnia and other  
aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 30 mg/l

### **12.2 Persistence and degradability**

#### **Product:**

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3

Date of last issue: 23.12.2022

Date of first issue: 05.02.2020

Revision Date:

06.04.2023

---

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

### Components:

#### **Boric acid:**

Biodegradability : Remarks: Not applicable

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

### Components:

#### **Boric acid:**

Mobility : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : Remarks: No data available

### Components:

#### **Boric acid:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..  
Remarks: Not applicable

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

### Product:

Additional ecological information : slightly water endangering  
Do not flush into surface water or sanitary sewer system.  
Neutralisation will reduce ecotoxic effects.

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## SECTION 13: Disposal considerations

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3

Date of last issue: 23.12.2022

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Revision Date:

06.04.2023

### 13.1 Waste treatment methods

Product	: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Fertilizer Check if agriculture use is possible.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate, manganese sulphate)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate, manganese sulphate)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate, manganese sulphate)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate, manganese sulphate)
IATA	: Environmentally hazardous substance, liquid, n.o.s. (zinc sulphate, manganese sulphate)

### 14.3 Transport hazard class(es)

ADN	: 9
ADR	: 9
RID	: 9
IMDG	: 9
IATA	: 9

### 14.4 Packing group

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

### ADN

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### ADR

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Segregation group :

### IATA

Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : 9

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

Not applicable

## 14.7 Maritime transport in bulk according to IMO instruments

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

---

Remarks : Not relevant

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### SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Water contaminating class : WGK 1 slightly water endangering  
(Germany)

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16: Other information

#### Full text of H-Statements

H302	: Harmful if swallowed.
H318	: Causes serious eye damage.
H360FD	: May damage fertility. May damage the unborn child.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: 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
Eye Dam.	: Serious eye damage
Repr.	: Reproductive toxicity
STOT RE	: Specific target organ toxicity - repeated 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 -

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Soja SL



Version: 1.3  
Date of last issue: 23.12.2022  
Date of first issue: 05.02.2020

Revision Date:  
06.04.2023

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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