

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Olivo SP 14-5-28

Version	Revision Date:	SDS Number:	Date of last issue: 12.01.2025
1.1	12.01.2025	M0270	Date of first issue: 12.01.2025

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

#### 1.1 Product identifier

Trade name : Basfoliar® Olivo SP 14-5-28

Unique Formula Identifier (UFI) : EKJ5-H04A-G000-EDNA

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

Use of the Sub-stance/Mixture : Fertiliser

#### 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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Reproductive toxicity, Category 1B      H360FD: May damage fertility. May damage the unborn child.

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

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Hazard statements : H360FD May damage fertility. May damage the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous components which must be listed on the label:

boric acid

### Additional Labelling

Restricted to professional users.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Inorganic fertiliser

#### Components

Chemical name	CAS-No.	Classification	Concentration
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	EC-No. Index-No. Registration number		(% w/w)
boric acid	10043-35-3 233-139-2 005-007-00-2 01-2119486683-25-XXXX	Repr. 1B; H360FD	>= 10 - < 20

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : If breathed in, move person into fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water.  
Take off all contaminated clothing immediately.  
If symptoms persist, call a physician.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

- Symptoms : Ingestion may provoke the following symptoms:  
Methaemoglobinemia
- Risks : May damage fertility. May damage the unborn child.

#### 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 : Water  
Dry chemical  
Water mist  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Sand

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

- Specific hazards during fire-fighting : Thermal decomposition can lead to release of irritating gases and vapours.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides

#### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 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.  
The product itself does not burn.

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### SECTION 6: Accidental release measures

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

- Personal precautions : Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Wash contaminated clothing before re-use.  
Avoid breathing dust.  
For personal protection see section 8.  
For disposal considerations see section 13.

#### 6.2 Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system.

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Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes.  
Wear personal protective equipment.  
Keep away from combustible material.  
Keep away from heat and sources of ignition.  
Smoking, eating and drinking should be prohibited in the ap-  
plication area.  
Dispose of rinse water in accordance with local and national  
regulations.
- Advice on protection against fire and explosion : The product is not flammable.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs. Wash  
hands before eating, drinking, or smoking. Wash hands before  
breaks and at the end of workday.

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

- Further information on stor- age conditions : Keep away from sources of ignition - No smoking. Keep away  
from direct sunlight. Protect from moisture.
- Advice on common storage : Keep away from combustible materials.  
Keep away from strong acids.  
Keep away from strong bases.  
Keep away from food, drink and animal feedingstuffs.
- Storage class (TRGS 510) : 6.1D
- Further information on stor- age stability : Protect from frost, heat and sunlight.

### 7.3 Specific end use(s)

- Specific use(s) : Not relevant

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
boric acid	10043-35-3	MAK (inhalable fraction)	10 mg/m <sup>3</sup>	DE DFG MAK
	Further information: According to currently available information damage to the embryo or foetus cannot be excluded after exposure to concentrations at the level of the MAK and BAT values			
		AGW (Inhalable fraction)	0,5 mg/m <sup>3</sup> (Borate)	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium sulphate	Workers	Skin contact	Long-term systemic effects	42,667 mg/kg
	Workers	Inhalation	Long-term systemic effects	11,167 mg/m <sup>3</sup>
	Consumer use	Oral	Long-term systemic effects	6,4 mg/kg
	Consumer use	Skin contact	Long-term systemic effects	12,8 mg/kg
	Consumer use	Inhalation	Long-term systemic effects	1,667 mg/kg

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

Substance name	Environmental Compartment	Value
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
	Fresh water	0,063 mg/kg

#### 8.2 Exposure controls

##### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Material : Gloves

Directive : Equipment should conform to EN 374

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Remarks	:	As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
Skin and body protection	:	Long sleeved clothing
Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter. Equipment should conform to EN 14387
Filter type	:	Filter type P
Protective measures	:	Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before re-use.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	green
Odour	:	none
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flammability	:	Will not burn
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	does not ignite

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Decomposition temperature : > 130 °C  
To avoid thermal decomposition, do not overheat.

pH : 4 - 6 (20 °C)  
Concentration: 100 g/l

Solubility(ies)  
Water solubility : soluble

Partition coefficient: n-  
octanol/water : Not applicable

Density : 1,18 g/cm<sup>3</sup>

Bulk density : ca. 1.025 kg/m<sup>3</sup>

Particle characteristics  
Particle Size Distribution : D50 = 350 µm ± 70 µm  
Measurement technique: Sieve analysis

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : not auto-flammable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.  
Heating can release hazardous gases.

### 10.4 Conditions to avoid



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Conditions to avoid : Hot surface(s)  
Direct sources of heat.

### 10.5 Incompatible materials

Materials to avoid : Strong bases  
Organic materials  
Strong acids  
Powdered metals

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Sulphur oxides  
Oxides of phosphorus  
Nitrogen oxides (NO<sub>x</sub>)

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## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### Components:

##### boric acid:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

#### Skin corrosion/irritation

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

#### Components:

##### boric acid:

Assessment : No skin irritation

#### Serious eye damage/eye irritation

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

#### Components:

##### boric acid:

Assessment : No eye irritation

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### Respiratory or skin sensitisation

#### Skin sensitisation

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

#### Respiratory sensitisation

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

#### Components:

##### boric acid:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

### Germ cell mutagenicity

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

#### Components:

##### boric acid:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

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

#### Components:

##### boric acid:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### Reproductive toxicity

May damage fertility. May damage the unborn child.

#### Components:

##### boric acid:

Effects on fertility : Remarks: Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

No effects on or via lactation

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### STOT - single exposure

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

#### Components:

##### boric acid:

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

### STOT - repeated exposure

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

#### Components:

##### boric acid:

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

### Aspiration toxicity

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

#### Components:

##### boric acid:

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### boric acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 79,7 mg/l  
Remarks: Boron

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 91 mg/l  
Remarks: Boron

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Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 52,4 mg/l  
Remarks: Boron

Toxicity to fish (Chronic toxicity) : NOEC: 6,4 mg/l  
Species: Danio rerio (zebra fish)  
Remarks: Boron

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 14,2 mg/l  
Species: Daphnia magna (Water flea)  
Remarks: Boron

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### Components:

##### **boric acid:**

Partition coefficient: n-octanol/water : log Pow: -1,09 (22 °C)

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Components:

##### **boric acid:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- |                        |   |  |
|------------------------|---|--|
| Product                | : | Do not flush into surface water or sanitary sewer system. Dispose of in accordance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used. |
| Contaminated packaging | : | Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous.                                 |
- 

## SECTION 14: Transport information

### 14.1 UN number or ID number

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADN    | : | Not regulated as a dangerous good |
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.2 UN proper shipping name

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADN    | : | Not regulated as a dangerous good |
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.3 Transport hazard class(es)

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADN    | : | Not regulated as a dangerous good |
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.4 Packing group

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**ADN** : Not regulated as a dangerous good  
**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA\_P (Passenger)** : 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

Regulatory basis : IMSBC Code  
Remarks : Product is not allowed to be transported in bulk.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: boric acid (Number on list 30)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : boric acid

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. potassium nitrate (ANNEX II)

Seveso III: Directive 2012/18/EU of the Euro- Not applicable

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European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Water hazard class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

### Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

Not relevant

## SECTION 16: Other information

### Full text of H-Statements

H360FD : May damage fertility. May damage the unborn child.

### Full text of other abbreviations

Repr. : Reproductive toxicity  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
DE DFG MAK / MAK : MAK value  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization;

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KECI - Korea Existing Chemicals Inventory; 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; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Repr. 1B

H360FD

#### Classification procedure:

Calculation method

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