

SAFETY DATA SHEET

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

Basfoliar® B Flo



Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2024
1.1	16.09.2024	M0062	Date of first issue: 13.09.2024

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

1.1 Product identifier

Trade name	:	Basfoliar® B Flo
Unique Formula Identifier (UFI)	:	MYU2-H0UP-400Y-4W2G

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

Use of the Sub-stance/Mixture	:	Fertiliser
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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)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Signal word : Danger

Hazard statements : H319 Causes serious eye irritation.
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.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

disodium tetraborate pentahydrate
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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic fertiliser

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
disodium tetraborate pentahydrate	12179-04-3 215-540-4 005-011-02-9 01-2119490790-32-XXXX	Eye Irrit. 2; H319 Repr. 1B; H360FD	>= 30 - < 50
boric acid	10043-35-3 233-139-2 005-007-00-2 01-2119486683-XXXX	Repr. 1B; H360FD	>= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If unconscious, place in recovery position and seek medical advice.

If inhaled : If breathed in, move person into fresh air.
In the case of inhalation of aerosol/mist consult a physician if necessary.

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 eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye irritation.
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
Carbon dioxide (CO₂)
Dry powder
Sand

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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

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.
Avoid formation of aerosol.
Do not breathe vapours or spray mist.
For personal protection see section 8.
For disposal considerations see section 13.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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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., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Wear personal protective equipment.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Do not use in areas without adequate ventilation.
Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion : No special protective measures against fire required.

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 storage conditions : Keep container tightly closed and in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Recommended storage temperature : 5 - 30 °C

Further information on storage 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
disodium tetraborate pentahydrate	12179-04-3	OELV - 8 hrs (TWA)	2 mg/m ³	IE OEL
	Further information: Repr 1B - Substances which are presumed human reproductive toxicants			
boric acid	10043-35-3	OELV - 8 hrs (TWA)	2 mg/m ³	IE OEL
	Further information: Repr 1B - Substances which are presumed human reproductive toxicants			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
disodium tetraborate pentahydrate	Workers	Inhalation	Long-term local effects	17,04 mg/m ³
	Workers	Inhalation	Acute local effects	17,04 mg/m ³
	Workers	Inhalation	Long-term systemic effects	9,8 mg/m ³
	Consumers	Oral	Acute systemic effects	1,15 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	3,4 mg/m ³
	Consumers	Oral	Long-term systemic effects	1,15 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	4,9 mg/m ³

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

Substance name	Environmental Compartment	Value
disodium tetraborate pentahydrate	Fresh water	2,9 mg/l
	Marine water	2,9 mg/l
	Soil	5,7 mg/l
	Sewage treatment plant	10 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection
Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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Break through time : > 480 min
Glove thickness : > 0,3 mm
Directive : Equipment should conform to EN 374

Remarks : The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. 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 : Do not breathe vapours or spray mist.
In the case of dust or aerosol formation use respirator with an approved filter.
Equipment should conform to EN 14387

Filter type : Combined particulates, inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK-P)

Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Wash contaminated clothing before re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : white

Odour : none

Melting point/range : ca. 0 °C

Boiling point/boiling range : ca. 100 °C

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

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Flash point : Not applicable

Auto-ignition temperature : does not ignite

pH : 6 - 8 (20 °C)

Solubility(ies)
Water solubility : soluble

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : 23 hPa (20 °C)

Density : 1,33 g/cm³ (20 °C)

9.2 Other information

Explosives : Not explosive

Flammability (liquids) : Will not burn

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reducing agents
May release combustible gases to fire and/or to explode

10.4 Conditions to avoid

Conditions to avoid : Strong sunlight for prolonged periods.

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10.5 Incompatible materials

Materials to avoid : Reducing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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:

disodium tetraborate pentahydrate:

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

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:

disodium tetraborate pentahydrate:

Assessment	:	No skin irritation
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boric acid:

Assessment	:	No skin irritation
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Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

disodium tetraborate pentahydrate:

Species	:	Rabbit
Result	:	Irritating to eyes.

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:

disodium tetraborate pentahydrate:

Assessment	:	Does not cause skin sensitisation.
Assessment	:	Does not cause respiratory sensitisation.

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:

disodium tetraborate pentahydrate:

Genotoxicity in vitro	:	Remarks: In vitro tests did not show mutagenic effects Based on data from similar materials
Germ cell mutagenicity- Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

boric acid:

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

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

Components:

disodium tetraborate pentahydrate:

Remarks : Animal testing did not show any carcinogenic effects.
Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

boric acid:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

May damage fertility. May damage the unborn child.

Components:

disodium tetraborate pentahydrate:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Result: Embryotoxic effects and adverse effects on the offspring were detected.
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

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

STOT - single exposure

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

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Components:

disodium tetraborate pentahydrate:

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

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:

disodium tetraborate pentahydrate:

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

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:

disodium tetraborate pentahydrate:

No aspiration toxicity classification

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:

disodium tetraborate pentahydrate:

Toxicity to fish	:	(Pimephales promelas (fathead minnow)): 79,7 mg/l Test Type: LC50
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Ceriodaphnia dubia (water flea)): 91 mg/l
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 52,4 mg/l
Toxicity to fish (Chronic toxicity)	:	NOEC: 6,4 mg/l Species: Danio rerio (zebra fish)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 14,2 mg/l Species: Daphnia magna (Water flea)

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
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:

disodium tetraborate pentahydrate:

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Partition coefficient: n-octanol/water : log Pow: -1,53 (22 °C)

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:

disodium tetraborate pentahydrate:

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

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.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system.
In accordance with local and national regulations.

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Contaminated packaging : Empty remaining contents.
Empty containers retain residue and can be dangerous.
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

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

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)

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

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.

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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: Number on list 3 disodium tetraborate pentahydrate (Number on list 30) boric acid (Number on list 30)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: disodium tetraborate pentahydrate 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
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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

H319	: Causes serious eye irritation.
H360FD	: May damage fertility. May damage the unborn child.

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Full text of other abbreviations

Eye Irrit.	:	Eye irritation
Repr.	:	Reproductive toxicity
IE OEL	:	Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2
IE OEL / OELV - 8 hrs (TWA)	:	Occupational exposure limit value (8-hour reference period)

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; 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; TECI - 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:

Eye Irrit. 2	H319
Repr. 1B	H360FD

Classification procedure:

Calculation method
Calculation method

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SAFETY DATA SHEET

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

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