

SAFETY DATA SHEET

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

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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

1.1 Product identifier

Trade name : Microlonic con Boro

Unique Formula Identifier (UFI) : DC5C-X04T-D00N-8C2W

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.
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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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. EC-No.	Classification	Concentration (% w/w)
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SAFETY DATA SHEET

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

Microlonic con Boro



Version 1.0 Revision Date: 11.08.2025 SDS Number: M0580 Date of last issue: -
Date of first issue: 11.08.2025

	Index-No. Registration number		
boric acid	10043-35-3 233-139-2 005-007-00-2 01-2119486683-25-XXXX	Repr. 1B; H360FD	>= 1 - < 10
Copper disodium-EDTA	14025-15-1 237-864-5 01-2119963944-23-XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 890 mg/kg	>= 1 - < 10

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 with soap and 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.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : May damage fertility. May damage the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SAFETY DATA SHEET

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

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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 ₂)
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 _x)
Oxides of phosphorus
Sulphur 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. |

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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SAFETY DATA SHEET

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

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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.

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 : No special precautions 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 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.

Further information on stor- age stability : Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) : Not relevant

SAFETY DATA SHEET

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



Microlonic con Boro

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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	OELV - 8 hrs (TWA)	2 mg/m3	IE OEL
Further information: Repr 1B - Substances which are presumed human reproductive toxicants				

8.2 Exposure controls

Personal protective equipment

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

Hand protection

Material : Gloves
Guideline : Equipment should conform to EN 374

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : green

Odour : none

SAFETY DATA SHEET

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



Microlonic con Boro

Version 1.0	Revision Date: 11.08.2025	SDS Number: M0580	Date of last issue: - Date of first issue: 11.08.2025
----------------	------------------------------	----------------------	--

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
Decomposition temperature	: > 1.575 °C
pH	: 2,5 - 4 Concentration: 10 g/l
Solubility(ies) Water solubility	: ca. 90 kg/m ³ (25 °C) soluble
Density	: not determined
Bulk density	: 590 kg/m ³ (25 °C)

9.2 Other information

Explosives	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Self-ignition	: not auto-flammable

SAFETY DATA SHEET

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

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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.
Gives off hydrogen by reaction with metals.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Alkali metals
Strong reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Elimination of water of crystallisation

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.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

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

SAFETY DATA SHEET

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

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

Copper disodium-EDTA:

Acute oral toxicity : LD50 (Rat): 890 mg/kg
Assessment: Harmful if swallowed.

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

Copper disodium-EDTA:

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

Copper disodium-EDTA:

Assessment : Irritating to eyes.

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.

Copper disodium-EDTA:

SAFETY DATA SHEET

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



Microlonic con Boro

Version 1.0	Revision Date: 11.08.2025	SDS Number: M0580	Date of last issue: - Date of first issue: 11.08.2025
----------------	------------------------------	----------------------	--

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.

Copper disodium-EDTA:

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.

Copper disodium-EDTA:

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

Copper disodium-EDTA:

Reproductive toxicity - Assessment : No toxicity to reproduction

SAFETY DATA SHEET

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



Microlonic con Boro

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

No effects on or via lactation

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.

Copper disodium-EDTA:

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.

Copper disodium-EDTA:

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

Copper disodium-EDTA:

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

SAFETY DATA SHEET

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



Microlonic con Boro

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at
levels of 0.1% or higher.

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
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)
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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.
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SAFETY DATA SHEET

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



Microlonic con Boro

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

Components:

boric acid:

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

Copper disodium-EDTA:

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. 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

ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

SAFETY DATA SHEET

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



Microlonic con Boro

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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	:	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	:	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 (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)	:	Banned and/or restricted
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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	boric acid
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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
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SAFETY DATA SHEET

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

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

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

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H360FD : May damage fertility. May damage the unborn child.

Full text of other abbreviations

Acute Tox. : Acute toxicity
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 as-

SAFETY DATA SHEET

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

Microlonic con Boro



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.08.2025	M0580	Date of first issue: 11.08.2025

sociated 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:

Repr. 1B

H360FD

Classification procedure:

Calculation method

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.

IE / EN