

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



NECHUSHTAN

Version 3.2

Revision Date 03.03.2015

Print Date 03.03.2015

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

1.1 Product identifier

Trade name : NECHUSHTAN

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

Use of the Substance/Mixture : Fungicide

1.3 Details of the supplier of the safety data sheet

Company : Nufarm S.A.S
28 boulevard Zéphirin Camélinat
92230 Gennevilliers
Telephone : +330140855050
Telefax : +330147922545
E-mail address : FDS@fr.nufarm.com
Responsible/issuing person

1.4 Emergency telephone number

Nufarm S.A.S. : +33 1 40 85 51 15
National emergency telephone number : not available

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)


Acute aquatic toxicity, Category 1 : H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1 : H410: Very toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment : R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : Warning

Hazard statements : H410 : Very toxic to aquatic life with long lasting effects.

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Precautionary statements : **Response:**
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
SPe 3 To protect aquatic organisms respect an unsprayed buffer zone of 20 m to surface water bodies.

SP1, Do not contaminate water with the product or it's container

EUH208, May produce an allergic reaction., (Contains 1,2-Benzisothiazolin-3-one)

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
A Chemical Safety Assessment is not required for this mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Suspension concentrate (SC)

Hazardous components

| Chemical Name | CAS-No. EC-No. Registration number | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration [%] |
|--|---|---------------------------------------|--|----------------------|
| Tribasic copper sulfate | 12527-76-3 | Xn; R22 N; R50/53 | Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 | 20% - 30% |
| 20% aqueous dipropylene glycol solution of 1,2 benzisothiazolin-3-one | 2634-33-5 | C-N; Xn-C-Xi-; R22-R34-R43- R50 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 | 0,025% - 0,16% |

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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- If inhaled : Move to fresh air.
- In case of skin contact : Take off all contaminated clothing immediately. Wash immediately affected parts with plenty of water and soap.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, Dry powder, Foam, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. In the event of fire (CO_x) may be formed.
- Hazardous combustion products :

5.3 Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.
Never return spills in original containers for re-use.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, universal binder ...).
Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children. Store in original container. Store at temperature above 0°C

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

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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If the sub-section is blank, no value is applicable.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Nitrile gloves

Skin and body protection : Long sleeved clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : suspension, liquid

Colour : greenish-blue
opaque

Odour : odourless

Odour Threshold : no data available

pH : ca. 7,14, pH of a 1% aqueous dilution

Melting point/range : no data available

Boiling point/boiling range : ca. 100 °C at 1,013 hPa

Flash point : does not flash

Evaporation rate : not applicable

Flammability (solid, gas) : not applicable

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : negligible

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| | |
|--|--|
| Relative vapour density | : not applicable |
| Relative density | : no data available |
| Density | : ca. 1,26 g/cm ³ at 20 °C |
| Water solubility | : insoluble, dispersible |
| Solubility in other solvents | : no data available |
| Partition coefficient: n-octanol/water | : log Pow: < 2 |
| Ignition temperature | : no data available |
| Thermal decomposition | : no data available |
| Viscosity, dynamic | : 1.570 mPa.s at 20 °C |
| Viscosity, kinematic | : no data available |
| Explosive properties | : Not explosive |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if stored and applied as directed.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available
Other information : no data available

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

| | |
|-----------------------------------|---|
| Acute oral toxicity | : LD50 rat: > 2.000 mg/kg |
| Acute inhalation toxicity | : LC50 rat: > 2.000 mg/l Exposure time: 4 h |
| Acute dermal toxicity | : LD50 rat: > 2.000 mg/kg |
| Skin corrosion/irritation | : Species: rabbit Result: No skin irritation |
| Serious eye damage/eye irritation | : Species: rabbit Result: No eye irritation |
| Respiratory or skin sensitisation | : Species: guinea pig Result: Did not cause sensitization. |
| Germ cell mutagenicity | |
| Genotoxicity in vitro | : no data available |
| Carcinogenicity | : Species: no data available |
| STOT - single exposure | : Remarks: no data available |
| STOT - repeated exposure | : Remarks: no data available |

SECTION 12: Ecological information

12.1 Toxicity

Product:

| | |
|---|--|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 13,18 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0,038 mg/l Exposure time: 48 h Test substance: (copper(II))hydroxide) |

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| | |
|--|---|
| Toxicity to algae | : EC50 (Pseudokirchneriella subcapitata (green algae)): > 12,3 mg/l Exposure time: 72 h Test substance: Test on active ingredient |
| Toxicity to fish (Chronic toxicity) | : NOEC: 0,97 mg/l Exposure time: 21 d Species: Oncorhynchus mykiss (rainbow trout) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 0,0167 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: (copper(II)hydroxide) |
| Toxicity to terrestrial organisms | : LC50: > 155 mg/kg Species: Earthworms LC50: 23 µg/bee, oral Species: Bee LC50: 40 µg/bee, contact Species: Bee |

12.2 Persistence and degradability

Product:

Biodegradability : no data available

Physico-chemical removability : no data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : no data available

Partition coefficient: n-octanol/water : log Pow: < 2

12.4 Mobility in soil

Product:

Mobility : no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., A Chemical Safety Assessment is not required for this mixture.

12.6 Other adverse effects

Product:

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Additional ecological information : No other known adverse effects on the environment

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not empty into drains.
Dispose of in accordance with local regulations.

Contaminated packaging : Do not re-use empty containers.
Dispose of empty packages through the specific collection services.

SECTION 14: Transport information

14.1 UN number

ADR : 3082
IMDG : 3082
IATA : 3082

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S. (Copper (as tribasic sulfate))

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S.

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID,
N.O.S.

14.3 Transport hazard class

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (E)

IMDG
Packaging group : III
Labels : 9
EmS Number : F-A,S-F

IATA
Packaging group : III
Labels : 9

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14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : yes

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : not applicable

SECTION 15: Regulatory information

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

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of R-Phrases

| | |
|-----------------|--|
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Acute aquatic toxicity |
| Aquatic Chronic | Chronic aquatic toxicity |
| R22 | Harmful if swallowed. |
| R34 | Causes burns. |
| R43 | May cause sensitisation by skin contact. |

Full text of H-Statements

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

Further information

Other information : Please note the convention used in this document for decimal points and commas for numerical values is as demonstrated by the example: 2,000 is two (to 3 decimal

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places) and not two thousand, whilst 1.000 is one thousand and not 1 (to 3 decimal places)

This version replaces all previous versions.

Alterations are indicated in the left hand margin by: II

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.