

MEGAMAX® 800 Tab 6x4

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Substance key: 000000858752

Revision Date: 23.10.2020

Version : 1 - 0 / EU

Date of printing : 11.03.2021

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

1.1. Product identifier

Trade name

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Material number: 246689

Chemical nature:

Mixture of zinc oxide, copper oxide and aluminium oxide

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

Relevant identified uses of the substance or mixture

Type of use : Syntheses

1.3. Details of the supplier of the safety data sheet

Identification of the company

Clariant Produkte (Deutschland) GmbH

Arabellastrasse 4a

81925 München

Telephone no. : +49 (0)89/5110-0

Information about the substance/mixture

BU Catalysts

Product Stewardship

e-mail: SDS.Europe@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Short-term (acute) aquatic hazard,
Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard,
Category 1

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

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 :

Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Copper oxide	1317-38-0 215-269-1 029-016-00-6 01-2119502447-44-0011 01-2119502447-44-0043	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 1	>= 50 - < 70
Zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32-0000 01-2119463881-32-0004 01-2119463881-32-0016 01-2119463881-32-0018 01-2119463881-32-0043 01-2119463881-32-0060 01-2119463881-32-XXXX	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 25 - < 30

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : none
- If inhaled : Move to fresh air.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If swallowed : Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : There are no acute and delayed symptoms and effects observed.
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
breathable copper oxide dust
Zinc oxide

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Wear suitable protective equipment.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.

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 protection against fire and explosion : No special precautions required.

Hygiene measures : Wash off with warm water and soap.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep tightly closed in a dry and cool place.

Further information on storage conditions : Keep container tightly closed.

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
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Zinc oxide CAS-No.: 1314-13-2	Workers	Inhalation	Long-term local effects	0,5 mg Zn/m3
Remarks:	DNEL			
	Workers	Inhalation	Long-term systemic effects	5 mg Zn/m3
Remarks:	DNEL			
	Workers	Dermal	Long-term systemic effects	83 mg/kg bw/day
Remarks:	DNEL			
	General population	Dermal	Long-term systemic effects	83 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	2,5 mg/m3
Remarks:	DNEL			
	General population	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
Remarks:	DNEL			
Aluminium oxide CAS-No.: 1344-28-1	Workers	Inhalation	Long-term local effects	15,63 mg/m3
Remarks:	DNEL			
	General population	Ingestion	Long-term systemic effects	3,29 mg/kg bw/day
Remarks:	DNEL			
Graphite CAS-No.: 7782-42-5	Workers	Inhalation	Long-term local effects	1,2 mg/m3
Remarks:	DNEL			
	General population	Inhalation	Long-term local effects	0,3 mg/m3
Remarks:	DNEL			
	General population	Ingestion	Long-term systemic effects	813 mg/kg bw/day
Remarks:	DNEL			
Copper oxide CAS-No.: 1317-38-0	Workers	Dermal	Long-term systemic effects	137 mg Cu/kg bw/d
Remarks:	DNEL			
	Workers	Oral	Long-term systemic effects	0,041 mg Cu/kg bw/d
Remarks:	DNEL			

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

Substance name	Environmental Compartment	Value
Zinc oxide CAS-No.: 1314-13-2	Fresh water	0,0206 mg/l
	salt water	0,0061 mg/l
	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
	Marine sediment	113 mg/kg dry weight (d.w.)
	Soil	106,8 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,052 mg/l

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Aluminium oxide CAS-No.: 1344-28-1	Fresh water	0,0749 mg/l
	Sewage treatment plant	20 mg/l
Copper oxide CAS-No.: 1317-38-0	Fresh water	0,0078 mg Cu/l
	Marine water	0,0052 mg Cu/l
	Fresh water sediment	87 mg Cu/kg
	Soil	65,5 mg Cu/kg
	Sewage treatment plant	0,23 mg Cu/l

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection : Safety glasses

Skin and body protection : not required under normal use

Respiratory protection : Half mask with a particle filter P2 (EN 143)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : tablet, powder

Colour : black, olive

Odour : none

Odour Threshold : Not relevant

pH : not tested.

Melting point : > 800 °C

Boiling point : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Burning number : not determined

Upper explosion limit / upper
flammability limit : not tested.

Lower explosion limit / Lower
flammability limit : not tested.

Vapour pressure : Not applicable

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Relative vapour density	: Not applicable
Relative density	: not tested.
Density	: not tested.
Bulk density	: ca. 1.050 kg/m ³
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: not tested.
Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: Not applicable
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Flow time	: Not applicable
Explosive properties	: no data available
Oxidizing properties	: not tested.

9.2 Other information

Sublimation point	: not determined
Minimum ignition energy	: not tested.
Particle size	: not tested.
Self-ignition	: not tested.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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

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10.4 Conditions to avoid

Conditions to avoid : Keep away from heat.

10.5 Incompatible materials

Materials to avoid : Acids and bases

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

In case of fire hazardous decomposition products may be produced such as:
see heading 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Components:

Copper oxide:

Acute oral toxicity : LD50 (Rat, male): > 2.500 mg/kg
Method: OECD Test Guideline 423
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Zinc oxide:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

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GLP: No information available.

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LC50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : LD50 (Rat): 240 mg/kg
Application Route: Intraperitoneal injection

Skin corrosion/irritation

Product:

Remarks : no data available

Components:

Copper oxide:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Zinc oxide:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : No information available.

Serious eye damage/eye irritation

Product:

Remarks : no data available

Components:

Copper oxide:

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

Zinc oxide:

Species : Rabbit
Exposure time : 24 h

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Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

Respiratory or skin sensitisation

Product:

Remarks : no data available

Components:

Copper oxide:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Zinc oxide:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Germ cell mutagenicity

Components:

Copper oxide:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects

Zinc oxide:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 0; 20; 100; 500; 2 500 and 5 0
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

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Test Type: In vitro gene mutation study in mammalian cells
Test system: mouse lymphoma cells
Concentration: 2.5, 5, 7.5, and 10 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Concentration: 0, 5, 10, and 20 µg/mL
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Micronucleus test
Test system: Human epithelioid cells
Concentration: 0, 5, 10, 25, 50 and 75 µg/mL
Metabolic activation: without
Method: OECD Test Guideline 487
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male)
Strain: NMRI
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Dose: 15, 30 and 60 mg/kg bw
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity-Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Components:

Copper oxide:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Zinc oxide:

Species : Mouse, male and female
Application Route : Drinking water
Exposure time : 52 wk
Dose : 4,4 and 22 g/L nom. in water
Frequency of Treatment : daily
NOAEL : > 22.000 mg/l
Method : Other

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GLP : No information available.
Remarks : By analogy with a product of similar composition

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

Copper oxide:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (feed)
Dose: 0, 100, 500, 1000, 1500 ppm
General Toxicity - Parent: NOAEL: 23,6 - 33,8 mg/kg body weight
General Toxicity F1: NOAEL: 23,5 - 35,2 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes

Effects on foetal development : Test Type: Pre-natal
Species: Rabbit, female
Strain: New Zealand white
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: 6 mg/kg body weight
Developmental Toxicity: NOAEL: 6 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Zinc oxide:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 0, 7.5, 15, 30 mg/kg bw/day
Duration of Single Treatment: 88 - 130 d
General Toxicity - Parent: LOAEL: 7,5 mg/kg body weight
General Toxicity F1: NOAEL: 15 mg/kg body weight
Method: OECD Test Guideline 416
GLP: no
Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Pre-natal
Species: Hamster, females
Application Route: oral (gavage)
Dose: 0.9, 4.1, 19 and 88 mg/kg bw
Duration of Single Treatment: 5 d
General Toxicity Maternal: NOAEL: 88 mg/kg body weight

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Teratogenicity: NOAEL: 88 mg/kg body weight
Method: Other
GLP: No information available.
Remarks: By analogy with a product of similar composition

Test Type: Pre-natal
Species: Mouse, females
Strain: CD1
Application Route: oral (gavage)
Dose: 0.3, 1.4, 6.5 and 30 mg
Duration of Single Treatment: 9 d
General Toxicity Maternal: NOAEL: 30 mg/kg body weight
Teratogenicity: NOAEL: 30 mg/kg body weight
Method: Other
GLP: No information available.
Remarks: By analogy with a product of similar composition

Test Type: Pre-natal
Species: Rat, females
Strain: wistar
Application Route: inhalation (dust/mist/fume)
Dose: 0.3, 1.5, and 7.5 mg/m³ (targ
Duration of Single Treatment: 14 d
Method: OECD Test Guideline 414
GLP: yes
Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Components:

Copper oxide:

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

Zinc oxide:

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

STOT - repeated exposure

Components:

Copper oxide:

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

Zinc oxide:

Assessment : The substance or mixture is not classified as specific target

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organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Copper oxide:

Species : Mouse, male and female
NOAEL : 44 - 52 mg/kg bw/day
Application Route : oral (feed)
Exposure time : 92 d
Number of exposures : daily
Dose : 0, 1000, 2000, 4000, 8000 or 1
Method : Regulation (EC) No. 440/2008, Annex, B.26
GLP : yes

Species : Rat, male and female
NOAEL : >= 0,002 mg/l
Application Route : inhalation (dust/mist/fume)
Exposure time : 28 d
Number of exposures : 5 days per week, 6 hours per d
Dose : 0.2, 0.4, 0.8, 2.0 mg/m³
Method : OECD Test Guideline 412
GLP : yes

Zinc oxide:

Species : Rat, male and female
NOEL : 234 - 243 mg/kg bw/day
Application Route : oral (feed)
Exposure time : 13 wk
Number of exposures : daily
Dose : 0, 300, 3000, 30000 ppm in die
Control Group : yes
Method : OECD Test Guideline 408
GLP : no
Remarks : By analogy with a product of similar composition

Species : Rat, male and female
NOAEC : 0,0005 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 28 d
Number of exposures : 6 h/day, 5 days/week
Dose : 0.5, 1.5, 3.0 and 4.5 mg/m³
Control Group : yes
Method : OECD Test Guideline 412
GLP : yes

Species : Rat, male and female
LOAEL : 75 mg/kg
Application Route : Dermal
Exposure time : 28 d
Number of exposures : (6 h per day for 5 d/week)

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Dose : 0, 75, 180, and 360 mg/kg bw/d
Control Group : yes
Method : OECD Test Guideline 410
GLP : yes

Aspiration toxicity

Components:

Copper oxide:

No aspiration toxicity classification

Zinc oxide:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

Further information

Product:

Remarks : No data is available on the product itself.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Components:

Copper oxide:

Toxicity to fish : Remarks: no data available

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 1

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Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Zinc oxide:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,78 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: No information available.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 0,416 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: No information available.
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,054 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: By analogy with a product of similar composition

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: yes

NOEC (activated sludge): 17 mg/kg dry weight (d.w.)
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 84 d
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: no

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Toxicity to fish (Chronic toxicity) : NOEC: 0,44 mg/l
End point: mortality
Exposure time: 72 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Analytical monitoring: yes
Method: Other
GLP: No information available.
Remarks: By analogy with a product of similar composition

NOEC: 0,057 - 0,25 mg/l
End point: mortality
Exposure time: 116 d
Species: Salmo trutta (brown trout)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 210
GLP: No information available.
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0056 mg/l
End point: mortality
Exposure time: 24 d
Species: Other
Test Type: semi-static test
Analytical monitoring: yes
Method: Other
GLP: No information available.

M-Factor (Chronic aquatic toxicity) : 1

Plant toxicity : IC50: 51 mg/l
Exposure time: 12 d
End point: Growth
Species: Lolium perenne
Analytical monitoring: no
Method: Other
GLP: No information available.

Sediment toxicity : NOEC: 850 mg/kg dry weight (d.w.)
Analytical monitoring: yes
Solvent: no
Duration: 56 d
Test Type: semi-static test
Sediment: Natural sediment
Exposure duration: 56 d
Species: Chironomus tentans
Basis for effect: Growth
Method: Other
GLP: No information available.

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Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: no data available

Components:

Copper oxide:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Zinc oxide:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Components:

Copper oxide:

Bioaccumulation : Remarks: Not applicable

Zinc oxide:

Bioaccumulation : Remarks: Not applicable

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: no data available

Components:

Copper oxide:

Distribution among environmental compartments : Remarks: After release, adsorbs onto soil.

Zinc oxide:

Distribution among environmental compartments : Medium: water - soil
Kd: 158,5 - 6.010 ml/g, log Kd: 2,2 - 3,78

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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:

Copper oxide:

Assessment : Remarks: Not relevant for inorganic substances

Zinc oxide:

Assessment : The substance is not identified as a PBT or as a vPvB substance..

12.6 Other adverse effects

Product:

Additional ecological information : No data is available on the product itself.

Components:

Copper oxide:

Additional ecological information : slightly hazardous to water

Zinc oxide:

Additional ecological information : obviously hazardous to water

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Refer to manufacturer/supplier for information on recovery/recycling.
Used catalysts may have different hazards or properties than the original product. This SDS does not apply to used catalysts.

Contaminated packaging : Dispose of as unused product.

SECTION 14: Transport information

Section 14.1. to 14.5.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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ADR

UN no.	UN 3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s):	Copper oxide zinc oxide
Class:	9
Primary risk:	9
Packing group:	III
Hazard no. :	90
Remarks	Shipment permitted

ADN

UN no.	UN 3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s):	Copper oxide zinc oxide
Class:	9
Primary risk:	9
Packing group:	III
Remarks	Shipment permitted

RID

UN no.	UN 3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s):	Copper oxide zinc oxide
Class:	9
Primary risk:	9
Packing group:	III
Hazard no. :	90
Remarks	Shipment permitted

IATA

UN no.	UN 3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s):	Copper oxide zinc oxide
Class:	9
Primary risk:	9
Packing group:	III
Remarks	Shipment permitted

IMDG

UN no.	UN 3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Hazard inducer(s):	Copper oxide zinc oxide
Class:	9
Primary risk:	9
Packing group:	III
Remarks	Shipment permitted
Marine pollutant:	Marine Pollutant
EmS :	F-A S-F

14.6. Special precautions for user

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See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)

No transport as bulk according IBC - Code.

Further information

Non-dangerous good of class 9 for packagings <= 5 L / 5 kg

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

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

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

15.2 Chemical safety assessment

Chemical Safety Assessments (CSAs) are available for one or more of the component substances contained in this product.

SECTION 16: Other information

Full text of H-Statements

H400 : Very toxic to aquatic life.

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

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard

Aquatic Chronic : Long-term (chronic) aquatic hazard

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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

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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; 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:

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Calculation method
Calculation method

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.