

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Rexolin Mg6

Version 2

Revision Date 19.06.2019

Print Date 04.05.2022

GR / EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : Rexolin Mg6

REACH Registration Number : 01-2119980788-14-0000

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

Use of the Substance/Mixture : Specific use(s): Chelating agent
Plant nutrient

1.3 Details of the supplier of the safety data sheet

Company : Nouryon
Functional Chemicals B.V.
Velperweg 76
NL 6824 BM Arnhem
Netherlands

Telephone : +31263664433
Telefax :
E-mail address : sds_chelates@nouryon.com

1.4 Emergency telephone number

Emergency telephone number : 24 hours:+31 57 06 79211, CHEMTREC-USA:1-800-424-9300, CHEMTREC outside USA +1-703-527-3887, CANUTEC-CANADA:1-613-996-6666,
化学事故应急咨询电话：国家化学事故应急响应中心 +86 532 8388 9090

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

Risk of dust explosion.
No further data available.

PBT and vPvB 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Common Name	:	Ethylenediaminetetraacetic acid, magnesium disodium complex
Pure substance/mixture	:	Substance
Remarks	:	No hazardous ingredients

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

Status	:	Not applicable
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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	:	No hazards which require special first aid measures.
If inhaled	:	Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water.
In case of skin contact	:	Take off contaminated clothing and shoes immediately.
In case of eye contact	:	Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
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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	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting / Specific hazards arising from the chemical	: Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Combustion products	: Fire will produce smoke containing hazardous combustion products (see section 10).

5.3 Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Avoid dust formation.
Emergency measures on accidental release	: Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorised persons entering the zone.

6.2 Environmental precautions

Environmental precautions	: Do not flush into surface water or sanitary sewer system.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment	: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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6.4 Reference to other sections

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

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	: For personal protection see section 8. Avoid creating dust. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Dispose of rinse water in accordance with local and national regulations. No special handling advice required.
Advice on protection against fire and explosion	: Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep in a dry place.
Store at room temperature in the original container.
Keep container tightly closed.
- Advice on common storage : No special restrictions on storage with other products.
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Dust		TWA	5 mg/m3		GR OEL	Total dust

- ACGIH: American Conference of Governmental Industrial Hygienists
AGW: Arbeitsplatzgrenzwert
BEI: Biological Exposure Index
MAC: Maximum Allowable Concentration
NIOSH: National Institute for Occupational Safety and Health
OEL: OEL: Occupational exposure limit.
STEL: Short term exposure limit
TRGS: Technische Regel für Gefahrstoffe
TWA: Time Weighted Average

8.2 Exposure controls

Engineering controls

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
In the case of dust, vapour or aerosol formation use a respirator with an approved filter.
Half mask with a particle filter P2 (EN 143)
- Hand protection : Nitrile rubber
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties****Appearance**

Form : granular

Colour : white

Odour : odourless

Odour Threshold : Not applicable

Safety data

pH : 6,5 - 7 1% (water)

Melting point : Decomposes before melting.

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Ignition temperature : ≥ 200 °C
Method: Auto-ignition of a 5mm dust layer according to EN 50281-2-1

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard
May form combustible dust concentrations in air during processing, handling or other means.

Flammability (liquids) : Not applicable

Lower explosion limit : ≥ 40 g/m³

Upper explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Bulk density : 600 - 800 kg/m³

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Water solubility	: ca. 900 g/l
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: < 0
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidising.

9.2 Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides
nitrogen oxides (NO_x)

Thermal decomposition : No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product information:

Acute toxicity : Not classified based on available information.

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Skin corrosion/irritation	: Not classified based on available information.
Serious eye damage/eye irritation	: Not classified based on available information.
Respiratory or skin sensitisation	: Respiratory sensitisation: Not classified based on available information. Skin sensitisation: Not classified based on available information.
Germ cell mutagenicity	: Not classified based on available information.
Carcinogenicity	: Not classified based on available information.
Reproductive toxicity	: Not classified based on available information.
STOT - single exposure	: Not classified based on available information.
STOT - repeated exposure	: Not classified based on available information.
Aspiration hazard	: Not classified based on available information.
Further information	: No further data available.

Test result

Acute inhalation toxicity	: LC50 (Rat): > 5,16 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Assessment: The substance or mixture has no acute inhalation toxicity Read-across (Analogy)
Skin corrosion/irritation	: Result: No skin irritation Method: OECD Test Guideline 439
Serious eye damage/eye irritation	: Result: No eye irritation Method: OECD Test Guideline 437
Respiratory or skin sensitisation	: Species: Mouse Result: Does not cause skin sensitisation. Method: OECD Test Guideline 429 Read-across (Analogy)
Repeated dose toxicity	: Species: Rat NOAEL: >= 250 mg/kg Application Route: Oral Exposure time: two year Read-across (Analogy) Species: Rat NOAEL: 0,42 mg/l Application Route: Inhalation Test atmosphere: dust/mist Exposure time: 42 days Read-across (Analogy)

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Germ cell mutagenicity

Genotoxicity in vitro : Ames test
Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 471
Read-across (Analogy)

Genotoxicity in vivo : In vivo micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative
Read-across (Analogy)

Carcinogenicity : Species: Rat
Application Route: Oral
Exposure time: two year
Result: no effects
Read-across (Analogy)

Reproductive toxicity : Test Type: Three-generation study
Species: Rat
Application Route: Oral
NOAEL: ≥ 250 mg/kg,
F1: ≥ 250 mg/kg,
Read-across (Analogy)

Reproductive toxicity/Development/Teratogenicity : Species: Rat
Application Route: Oral
Duration of Single Treatment: 168 h
General Toxicity Maternal: Lowest observed adverse effect level: 1 340 mg/kg body weight
Developmental Toxicity: 1 340 mg/kg body weight
Read-across (Analogy)

STOT - single exposure : Not classified due to data which are conclusive although insufficient for classification.

STOT - repeated exposure : Not classified due to data which are conclusive although insufficient for classification.

Aspiration hazard : Not classified due to data which are conclusive although insufficient for classification.

SECTION 12: ECOLOGICAL INFORMATION

Product information: Ecotoxicology Assessment

Additional ecological information : None known.

12.1 Toxicity

Test result

Toxicity to fish : LC50: > 100 mg/l
Exposure time: 96 h

	Species: <i>Lepomis macrochirus</i> (Bluegill sunfish) Test Type: Fresh water Read-across (Analogy)
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 100 mg/l Exposure time: 48 h Species: <i>Daphnia magna</i> (Water flea) Test Type: Fresh water Method: OECD Test Guideline 202 Read-across (Analogy)
Toxicity to algae	: EC50: > 100 mg/l Exposure time: 72 h Species: <i>Pseudokirchneriella subcapitata</i> (algae) Test Type: Fresh water Method: OECD Test Guideline 201 Read-across (Analogy)
Toxicity to fish (Chronic toxicity)	: NOEC: > 25,7 mg/l Exposure time: 35 d Species: <i>Danio rerio</i> (zebra fish) Test Type: flow-through test Method: OECD Test Guideline 210 Read-across from supporting substance (structural analogue or surrogate).
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 25 mg/l Exposure time: 21 d reproduction rate Species: <i>Daphnia magna</i> (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211 Read-across from supporting substance (structural analogue or surrogate).

12.2 Persistence and degradability

Product information:

Biodegradability : Not readily biodegradable, but will degrade after a longer period.

12.3 Bioaccumulative potential

Product information:

Bioaccumulation : Not expected considering the low log Pow value.

12.4 Mobility in soil

Product information:

Mobility : Adsorption to the solid soil particles is not expected.

12.5 Results of PBT and vPvB assessment

Product information:

PBT and vPvB 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.

12.6 Other adverse effects

Product information:

Biochemical Oxygen Demand (BOD) : No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

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

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

Notification status

DSL	: YES. All components of this product are on the Canadian DSL
AICS	: YES. On the inventory, or in compliance with the inventory
NZIoC	: YES. On the inventory, or in compliance with the inventory
ENCS	: YES. On the inventory, or in compliance with the inventory
ISHL	: YES. On the inventory, or in compliance with the inventory
KECI	: NO. Not in compliance with the inventory
PICCS	: YES. On the inventory, or in compliance with the inventory
IECSC	: YES. On the inventory, or in compliance with the inventory
TCSI	: YES. On the inventory, or in compliance with the inventory
TSCA	: YES. All substances listed as active on the TSCA inventory

For explanation of abbreviation see section 16.

15.2 Chemical safety assessment

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

SECTION 16: OTHER INFORMATION

Full text of other abbreviations

GR OEL : Greece. Hellenic Institute for Occupational Health and Safety - List of Limit Values
GR OEL / TWA : Time weighted average

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 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-

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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

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.
