

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Nitrocote 9M



Version: 3.3
Date of last issue: 23.12.2022
Date of first issue: 30.09.2016

Revision Date:
07.04.2023

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

1.1 Product identifier

Trade name : Nitrocote 9M

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

Use of the Substance/Mixture : Fertilizer

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)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements : EUH210 Safety data sheet available on request.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

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3.2 Mixtures

Chemical nature : Fertilizer
Straight-N-fertilizer on basis:
Urea
coated

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Urea	57-13-6 200-315-5 01-2119463277-33-XXXX		<= 100
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27-XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 0 - <= 4
iron sulphate	7720-78-7 231-753-5 01-2119513203-57-XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Acute toxicity estimate Acute oral toxicity: 500 mg/kg	>= 0 - <= 2

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

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4.1 Description of first aid measures

- | | | |
|-------------------------|---|--|
| If inhaled | : | Keep patient calm, remove to fresh air, seek medical attention. |
| In case of skin contact | : | Wash off with soap and water.
If irritation develops, seek medical attention. |
| In case of eye contact | : | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| If swallowed | : | Clean mouth with water and drink afterwards plenty of water. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|----------|---|---|
| Symptoms | : | Irritation
Redness
Nausea
Vomiting |
|----------|---|---|

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 | : | Product does not burn, fire-extinguishing activities according to surrounding. |
|------------------------------|---|--|

5.2 Special hazards arising from the substance or mixture

- | | | |
|--------------------------------------|---|---|
| Specific hazards during firefighting | : | Fire may cause evolution of:
carbon monoxide
ammonia
Carbon dioxide (CO ₂)
Nitrogen oxides (NO _x) |
|--------------------------------------|---|---|

5.3 Advice for firefighters

- | | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information | : | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Do not empty into drains.
Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

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 : Protect from contamination.
Keep away from direct sunlight.
Protect against heat.
Protect from moisture.

Advice on protection against fire and explosion : The product is not flammable. Keep away from heat and sources of ignition. Keep away from combustible materials.

Hygiene measures : At the end of the shift the skin should be cleaned and skin-care agents applied.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other fertilizers. Protect against humidity (product is hygroscopic and tends to cake or disintegrate)

Storage class (TRGS 510) : 11, Combustible Solids

7.3 Specific end use(s)

Specific use(s) : Not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
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		of exposure)		
iron sulphate	7720-78-7	TWA	1 mg/m ³ (Iron)	GB EH40

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Nitrocote 9M	Workers	Skin contact		580 mg/kg
	Consumers	Inhalation		125 mg/m ³
	Consumers	Ingestion		42 mg/kg

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

Substance name	Environmental Compartment	Value
Nitrocote 9M	Fresh water	0,047 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles (splash goggles) (EN 166)

Hand protection

Remarks : Chemical resistant protective gloves (EN 374). butyl rubber (butyl) - 0.7 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness polyvinylchloride (PVC) - 0.7 mm coating thickness

Skin and body protection : Wearing of closed work clothing is recommended.

Respiratory protection : respiratory protection only if aerosol or dust is formed.

Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

Environmental exposure controls

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General advice	: Do not empty into drains. Retain and dispose of contaminated wash water.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: granular
Colour	: various
Odour	: faint odour, ammoniacal
pH	: ca. 9 - 10, Concentration: 100 g/l (20 °C)
Melting point/range	: ca. 133 °C
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: not highly flammable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: < 0,01 kPa
Density	: 1,33 g/cm ³ (20 °C)
Bulk density	: ca. 780 - 830 kg/m ³
Solubility(ies)	
Water solubility	: ca. 590 g/l soluble (20 °C)
Partition coefficient: n-octanol/water	: log Pow: ca. -1,59
Auto-ignition temperature	: Not applicable
Decomposition temperature	: ca. 133 °C To avoid thermal decomposition, do not overheat.

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Viscosity	
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

9.2 Other information

Molecular weight	: 60,06 g/mol
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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

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

Conditions to avoid	: Avoid electro-static charge.
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10.5 Incompatible materials

Materials to avoid	: Nitrites nitrates
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10.6 Hazardous decomposition products

Hazardous decomposition products	: ammonia Ammonia gas may be liberated at high temperatures.
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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity	: LD50 (Rat): 14.300 mg/kg
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Components:

Urea:

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Acute oral toxicity : LD50 (Rat): 14.300 mg/kg

ammonium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l
Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402

iron sulphate:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat): 657 - 4.390 mg/kg
Method: Calculation method

Acute toxicity estimate: 500 mg/kg
Method: Converted acute toxicity point estimate

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : LD50 (Rat): > 1.992 mg/kg
Method: Converted acute toxicity point estimate

Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

Components:

Urea:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

iron sulphate:

Method: OECD Test Guideline 404

Result: Skin irritation

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Remarks: Irritating to skin and mucous membranes

Serious eye damage/eye irritation

Product:

Species: Rabbit
Method: OECD Test Guideline 405
Result: non-irritant

Components:

Urea:

Species: Rabbit
Method: OECD Test Guideline 405
Result: non-irritant

ammonium nitrate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritant

iron sulphate:

Method: OECD Test Guideline 405
Result: Eye irritation

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

Urea:

Result: non-sensitizing

ammonium nitrate:

Result: Does not cause skin sensitisation.

iron sulphate:

Method: OECD TG 429
Result: Did not cause sensitisation on laboratory animals.

germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Contains no hazardous ingredients according to GHS

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Components:

Urea:

Genotoxicity in vitro : Remarks: Contains no hazardous ingredients according to GHS

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Product:

Remarks: Contains no ingredient listed as a carcinogen

Components:

Urea:

Remarks: Contains no ingredient listed as a carcinogen

ammonium nitrate:

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

iron sulphate:

Carcinogenicity - Assessment : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

Reproductive toxicity

Product:

Effects on fertility :
Remarks: No toxicity to reproduction

Effects on foetal development : Remarks: Contains no ingredient listed as toxic to reproduction

Components:

Urea:

Effects on fertility :
Remarks: No toxicity to reproduction

Effects on foetal development : Remarks: Contains no ingredient listed as toxic to reproduction

ammonium nitrate:

Effects on fertility : Species: Rat

Remarks: Animal testing did not show any effects on fertility.

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Effects on foetal
development

: Species: Rat

Remarks: Did not show teratogenic effects in animal
experiments.

STOT - single exposure

Product:

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

Components:

Urea:

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

STOT - repeated exposure

Product:

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

Components:

Urea:

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

iron sulphate:

Remarks: No known effect.

Repeated dose toxicity

Components:

ammonium nitrate:

Species: Rat

NOAEL: > 1.500 mg/kg

Application Route: Oral

Exposure time: 28 d

Species: Rat

NOAEL: = 256 mg/kg

Application Route: Oral

Exposure time: 52 w

Method: OECD Test Guideline 453

Species: Rat

NOAEL: >= 185 mg/kg

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Application Route: by inhalation

Exposure time: 2 w

Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

iron sulphate:

Species: Rat

NOAEL: 284 - 324 mg/kg

Application Route: Oral

Exposure time: 90 d

Remarks: Information given is based on data obtained from similar substances.

Species: Rat

NOAEL: 100 mg/kg

Application Route: Oral

Exposure time: 49 d

Application Route: by inhalation

Remarks: This information is not available.

Application Route: Dermal

Remarks: This information is not available.

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (golden orfe): 6.810 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 10.000 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test

Toxicity to algae : (Scenedesmus quadricauda (Green algae)): > 10.000 mg/l
Exposure time: 8 h

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Test Type: other

Toxicity to bacteria : EC20 (*Pseudomonas putida*): ca. > 10.000 mg/l
Exposure time: 16 h
Test Type: other
Remarks: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Components:

Urea:

Toxicity to fish : LC50 (golden orfe): 6.810 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia* (water flea)): > 10.000 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : (*Scenedesmus quadricauda* (Green algae)): > 10.000 mg/l
Exposure time: 8 h
Test Type: other

Toxicity to bacteria : EC20 (*Pseudomonas putida*): ca. > 10.000 mg/l
Exposure time: 16 h
Test Type: other
Remarks: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

ammonium nitrate:

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia* (water flea)): 490 mg/l
Exposure time: 48 h

LC50 : 490 mg/l

Toxicity to algae : EC50 (*Selenastrum capricornutum* (green algae)): 1.700 mg/l
Exposure time: 10 d

iron sulphate:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

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12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Readily biodegradable, according to appropriate OECD test.

Physico-chemical
removability : DOC reduction
ca. 96 %
Remarks: May be eliminated in purification plants

Components:

Urea:

Biodegradability : Remarks: Readily biodegradable, according to appropriate OECD test.

Physico-chemical
removability : DOC reduction
ca. 96 %
Remarks: May be eliminated in purification plants

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

iron sulphate:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Components:

Urea:

Bioaccumulation : Remarks: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Partition coefficient: n-
octanol/water : log Pow: ca. -1,59

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water : log Pow: -3,1

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iron sulphate:

Bioaccumulation

: Remarks: Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil

Components:

iron sulphate:

Distribution among
environmental compartments

: Medium:Soil
Remarks: immobile

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: Remarks: No data available

Components:

Urea:

Assessment

: Remarks: No data available

iron sulphate:

Assessment

: This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological
information

: There is a high probability that the product is acute not harmful to aquatic organisms.

Components:

Urea:

Additional ecological
information

: There is a high probability that the product is acute not harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Check if agriculture use is possible.
Contact manufacturer.

Contaminated packaging

: Contaminated packaging should be emptied as far as

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possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

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

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not relevant

SECTION 15: Regulatory information

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

Water contaminating class : WGK 1 slightly water endangering
(Germany)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer.
H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.

Full text of other abbreviations

Acute Tox. : Acute toxicity

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Eye Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids
Skin Irrit. : Skin irritation

(Q)SAR - (Quantitative) Structure Activity Relationship; 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; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; 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; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

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.

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