

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

NovaTec® 10-30



Version: 1.4
Date of last issue: 23.12.2022
Date of first issue: 26.07.2019

Revision Date:
07.04.2023

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

1.1 Product identifier

Trade name : NovaTec® 10-30

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 : NP - fertilizer contains:
ammonium phosphate
Ammonium Sulphate
salts of magnesium
Contains
1H-Pyrazole, 3,4-dimethyl-,phosphate (1:1)

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1)	202842-98-6 424-640-9 01-0000017109-71- 0002	Acute Tox. 4; H302 Eye Irrit. 2; H319 Repr. 2; H361fd STOT RE 2; H373	<= 0,2

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Move to fresh air.
Obtain medical attention.
If unconscious place in recovery position and seek medical advice.
In case of lung irritation, first treatment with dexametason aerosol (spray).

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 swallowed : Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Ingestion may provoke the following symptoms:
Methaemoglobinemia

Risks : Later control for pneumonia and lung oedema.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water
Carbon dioxide (CO₂)
Dry chemical
Foam

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : At temperatures above 130 °C, dangerous decomposition gases can be emitted:
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia

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

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.
Ensure adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.

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.

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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) |
| Further information on storage conditions | : | Protect against water. Keep away from direct sunlight. |
| Storage class (TRGS 510) | : | 13, Non Combustible Solids |

7.3 Specific end use(s)

- | | | |
|-----------------|---|---|
| Specific use(s) | : | Always read the label and product information before use. |
|-----------------|---|---|
-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

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

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

General advice : Do not empty into drains.
Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: granular
Colour	: various
Odour	: very faint
Odour Threshold	: No data available
pH	: ca. 4 - 5, Concentration: 100 g/l (20 °C)
Melting point/range	: No data available
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: Not explosive
Lower explosion limit	: Not explosive
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Bulk density	: ca. 1.150 kg/m ³
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable

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Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance
Particle characteristics	
Particle Size Distribution	: D50 = 3,3 mm D50 Tolerance range = 2,8 mm - 3,8 mm Measurement technique: Optoelectronic measurement method

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalies.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.
Avoid moisture.

10.5 Incompatible materials

Materials to avoid : Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.

10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia

SECTION 11: Toxicological information

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

Acute toxicity

Product:

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Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Acute oral toxicity : LD50 (Rat): 200 - 2.000 mg/kg

Method: Tested according to Directive 92/69/EEC.

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

Acute inhalation toxicity : LC50 (Rat): > 5,5 mg/l

Method: OECD Test Guideline 403

Remarks: calculated

Skin corrosion/irritation

Product:

Species: Rabbit

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

Result: non-irritant

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

Serious eye damage/eye irritation

Product:

Species: Rabbit

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

Result: non-irritant

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

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1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

germ cell mutagenicity

Product:

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

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Germ cell mutagenicity- : Animal experiments showed mutagenic and teratogenic
Assessment effects.

Carcinogenicity

Product:

Remarks: Contains no ingredient listed as a carcinogen

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Carcinogenicity - : Did not show carcinogenic effects in animal experiments.
Assessment

Reproductive toxicity

Product:

Effects on fertility :
Remarks: No toxicity to reproduction

Effects on foetal : Remarks: Did not show teratogenic effects in animal
development experiments.
Information given is based on data obtained from similar substances.

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Reproductive toxicity - : In animal testing, risk of impaired fertility was shown only after
Assessment administration of very high doses of this substance.
May damage fertility. Suspected of damaging the unborn child.

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STOT - single exposure

Product:

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.

Repeated dose toxicity

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Remarks: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.

The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Experience with human exposure

Product:

General Information : Danger of methaemoglobin formation.

Further information

Product:

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 422 mg/l
Exposure time: 48 h
Test Type: other

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Remarks: The data is estimated based on the component aquatic toxicity classification.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.

Toxicity to algae : No observed effect concentration (Desmodesmus subspicatus (green algae)): 83 mg/l
Exposure time: 168 h
Test Type: other
Method: No data available

Toxicity to bacteria : EC20 (activated sludge): ca. > 100 mg/l
Exposure time: 0,5 h
Test Type: other
Method: No data available

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Toxicity to fish : (zebra fish): > 100 mg/l
Exposure time: 96 h
Test Type: LC50
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h

Toxicity to bacteria :
Remarks: Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated sludge.

Toxicity to fish (Chronic toxicity) : NOEC: > 8,7 mg/l
Species: other

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 25 mg/l
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The product works in the soil as fertilizer and is diminished in a few weeks.

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Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Biodegradability : Remarks: Inherently biodegradable.
According to the results of tests of biodegradability this product is not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Bioaccumulation : Species: Pimephales sp.
Exposure time: 14 d
Bioconcentration factor (BCF): 1,2
Method: Bioaccumulation: Flow-through Fish Test.
Remarks: Does not significantly accumulate in organisms.
The product was not tested. The statement was derived from products of similar structure and composition.

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Distribution among environmental compartments : Remarks: Because of the water solubility, part of the product will dissolve.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: No data available

Components:

1H-Pyrazole, 3,4-dimethyl-, phosphate (1:1):

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Endocrine disrupting properties

No data available

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12.7 Other adverse effects

Product:

Additional ecological
information

: Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated sludge. There is a high probability that the product is acute not harmful to aquatic organisms.
Additional ecological information
The product has not been tested. The information is derived from the properties of the individual components.
At higher pH values, which can be found in natural surface waters, an increase of toxic effects on aquatic organisms may be expected.

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 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

Not applicable for product as supplied.

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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 product.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H361fd : Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 : May cause damage to organs through prolonged or repeated exposure.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Irrit. : Eye irritation
Repr. : Reproductive toxicity
STOT RE : Specific target organ toxicity - repeated exposure

(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

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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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