

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



NOVAMMON 21-12-15

Version: 1.0
Date of last issue: -
Date of first issue: 07.08.2024

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

1.1 Product identifier

Trade name : NOVAMMON 21-12-15

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

Use of the Substance/Mixture : Fertiliser

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

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



NOVAMMON 21-12-15

Version: 1.0
Date of last issue: -
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Revision Date:
07.08.2024

3.2 Mixtures

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	>= 0,1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

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.
Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

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 (CO)

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



NOVAMMON 21-12-15

Version: 1.0
Date of last issue: -
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07.08.2024

Carbon dioxide (CO₂)
ammonia
Nitrogen oxides (NO_x)
Hydrogen chloride (HCl)
Oxides of phosphorus

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 : Ensure adequate ventilation.

6.2 Environmental precautions

- Environmental precautions : Do not let product enter drains.
Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Take up mechanically and send for disposal.

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.
Keep away from heat.
Protect from moisture.
- Advice on protection against fire and explosion : The product is not flammable. Keep away from combustible materials. Keep away from heat and sources of ignition.
- 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 : When stored loose do not mix with other fertilizers. Protect from moisture. Keep away from heat. Protect from

Material Safety Data Sheet

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NOVAMMON 21-12-15

Version: 1.0
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contamination. Keep away from combustible material.

Storage class (TRGS 510) : 13, Non Combustible Solids

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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). chloroprene rubber (CR) - 0.5 mm coating thickness butyl rubber (butyl) - 0.7 mm coating thickness polyvinylchloride (PVC) - 0.7 mm coating thickness

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

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.
Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

Environmental exposure controls

General advice : Do not let product enter 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 : solid

Colour : red brown

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



NOVAMMON 21-12-15

Version: 1.0
Date of last issue: -
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Revision Date:
07.08.2024

Odour	: No information available.
pH	: 6, Concentration: 100 g/l (20 °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	: No data available
Density	: No data available
Bulk density	: not determined
Solubility(ies) Water solubility	: No data available
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Explosive properties	: Not explosive

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

The product is chemically stable.

10.3 Possibility of hazardous reactions

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



NOVAMMON 21-12-15

Version: 1.0
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Revision Date:
07.08.2024

Hazardous reactions : Incompatible with strong bases and oxidizing agents.
No decomposition if stored and applied as directed.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Ammonia gas may be liberated at high temperatures.
Nitrogen oxides (NO_x)
Oxides of phosphorus

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Remarks: The product has not been tested. The information is derived from the properties of the individual components.

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:

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

Components:

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

Species: Rabbit
Method: OECD Test Guideline 404
Result: non-irritant

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

NOVAMMON 21-12-15



Version: 1.0
Date of last issue: -
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Revision Date:
07.08.2024

Serious eye damage/eye irritation

Product:

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

Components:

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

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

Respiratory or skin sensitisation

Product:

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

Components:

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

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

germ cell mutagenicity

Components:

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

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

Carcinogenicity

Components:

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

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

Reproductive toxicity

Product:

Effects on foetal development : Remarks: Based on available data, the classification criteria are not met.

Components:

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

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

NOVAMMON 21-12-15



Version: 1.0
Date of last issue: -
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Revision Date:
07.08.2024

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

STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

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

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

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 : EC50 (Daphnia magna (Water flea)): > 100 mg/l

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



NOVAMMON 21-12-15

Version: 1.0
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Revision Date:
07.08.2024

aquatic invertebrates	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: No data available
Physico-chemical removability	: Remarks: No data available

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.
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12.3 Bioaccumulative potential

Product:

Bioaccumulation	: Remarks: No data available
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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.
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Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



NOVAMMON 21-12-15

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12.4 Mobility in soil

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 : Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not flush into surface water, groundwater or sanitary sewer system.
Where possible recycling is preferred to disposal or incineration.
In accordance with local and national regulations.

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

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

NOVAMMON 21-12-15



Version: 1.0
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Revision Date:
07.08.2024

Segregation 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.

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 listed

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

Water hazard class (Germany) : WGK 1 slightly hazardous to water

15.2 Chemical safety assessment

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

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; 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-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals 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.

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