according to Regulation (EC) No. 1907/2006

## NovaTec® Primo 20-10-10



Version: 1.6 Revision Date:
Date of last issue: 23.12.2022 06.04.2023

Date of first issue: 18.12.2018

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

1.1 Product identifier

Trade name : NovaTec® Primo 20-10-10

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

Use of the : Fertilizer

Substance/Mixture

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.

Further information : German "Hazardous Substances" legislation (

Gefahrstoffverordnung) appendix I, No. 5 (Ammonium

Nitrate group C III)

according to Regulation (EC) No. 1907/2006

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#### 2.3 Other hazards

None known.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : Fertilizer

Contains

NPK - fertilizer containing: Ammonium Nitrate, ammonium salts, phosphates, potassium sulphate, magnesium sulphate, salts of calcium, potassium and possibly magnesium and

trace elements.

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

### **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
ammonium nitrate	6484-52-2	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 10 - < 70
	229-347-8		
	01-2119490981-27-		
	XXXX		

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.

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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.

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

Unsuitable extinguishing

media

Foam

Dry chemical

Carbon dioxide (CO2)

Sand

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

for firefighters

Special protective equipment : 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.

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## 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)

Further information on

storage conditions

: Protect against water. Keep away from direct sunlight.

Storage class (TRGS 510) : 5.1C, Ammonium nitrate and ammonium nitrate containing

preparations

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

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m3

according to Regulation (EC) No. 1907/2006

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Workers	Skin contact	Long-term systemic effects	5,12 mg/kg bw/day
Consumers	Ingestion	Long-term systemic effects	2,56 mg/kg bw/day
Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3
Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
ammonium nitrate	Sewage treatment plant	18 mg/l

## 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).

#### **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. 5 - 5,5, Concentration: 100 g/l (20 °C)

according to Regulation (EC) No. 1907/2006

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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/m³

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Decomposition temperature : > 130 °C

To avoid thermal decomposition, do not overheat.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not considered an oxidizing substance

**Particle characteristics** 

Particle Size Distribution : D50 = 3.4 mm

D50 Tolerance range = 3,0 mm - 3,8 mm

Measurement technique: Optoelectronic measurement

method

#### 9.2 Other information

No data available

according to Regulation (EC) No. 1907/2006

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## **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:** 

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

**Components:** 

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

according to Regulation (EC) No. 1907/2006

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#### Skin corrosion/irritation

#### **Product:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

#### **Components:**

## ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

## Serious eye damage/eye irritation

### **Product:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: non-irritant

## **Components:**

## ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

### Respiratory or skin sensitisation

#### **Product:**

Result: non-sensitizing

#### **Components:**

#### ammonium nitrate:

Result: Does not cause skin sensitisation.

## germ cell mutagenicity

## **Product:**

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

**GHS** 

## **Components:**

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

according to Regulation (EC) No. 1907/2006

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## Carcinogenicity

#### **Product:**

Remarks: Contains no ingredient listed as a carcinogen

## **Components:**

#### ammonium nitrate:

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

#### Reproductive toxicity

#### **Product:**

Effects on fertility

Remarks: No toxicity to reproduction

Effects on foetal

: Remarks: Did not show teratogenic effects in animal

development

Information given is based on data obtained from similar

substances.

experiments.

#### **Components:**

ammonium nitrate:

Effects on fertility : Species: Rat

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

Effects on foetal

: Species: Rat

development

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.

### STOT - repeated exposure

#### **Product:**

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

## Repeated dose toxicity

#### **Components:**

according to Regulation (EC) No. 1907/2006

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## 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

Application Route: by inhalation

Exposure time: 2 w

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

#### **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: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 555 mg/l

Exposure time: 48 h

according to Regulation (EC) No. 1907/2006

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Test Type: static test

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:** 

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

12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: The product works in the soil as fertilizer and is

diminished in a few weeks.

**Components:** 

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological

degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

**Components:** 

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

according to Regulation (EC) No. 1907/2006

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Partition coefficient: n-

octanol/water

: log Pow: -3,1

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : Remarks: No data available

12.6 Endocrine disrupting properties

No data available

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 organsims 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

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## 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.

## **SECTION 15: Regulatory information**

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

Water contaminating class

(Germany)

: WGK 1 slightly water endangering

Other regulations : TRGS 511 'Ammonium nitrate'

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts must be reported to the relevant national contact

point.

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this product.

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H272 : May intensify fire; oxidizer. H319 : Causes serious eye irritation.

#### Full text of other abbreviations

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

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European

according to Regulation (EC) No. 1907/2006

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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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