

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## NovaTec® 10-10-20



Version: 1.5  
Date of last issue: 23.12.2022  
Date of first issue: 08.04.2016

Revision Date:  
07.04.2023

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

#### 1.1 Product identifier

Trade name : NovaTec® 10-10-20

#### 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

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### 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.

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### SECTION 3: Composition/information on ingredients

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### 3.2 Mixtures

Chemical nature : Fertilizer  
NPK - fertilizer contains:  
Urea  
ammonium salts  
potassium salts  
trace elements  
1H-Pyrazole, 3,4-dimethyl-,phosphate (1:1)

#### 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		$\geq 5 - \leq 50$
ammonium sulphate	7783-20-2  231-984-1		$\geq 1 - \leq 75$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Take off immediately all contaminated clothing.  
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : Keep patient calm, remove to fresh air, seek medical attention.  
If unconscious place in recovery position and seek medical advice.

In case of skin contact : Wash thoroughly 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 : Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

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#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

#### 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 : The product is not flammable.  
Water spray  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : Foam  
Sand  
ABC powder  
Carbon dioxide (CO<sub>2</sub>)

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Heating can release hazardous gases.  
Fire may cause evolution of:  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
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.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : No special measures necessary if stored and handled as prescribed.

Advice on protection against fire and explosion : The product is not flammable.

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 direct sunlight. Keep away from combustible material. Protect from contamination. 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)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

none

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

Substance name	End Use	Exposure routes	Potential health effects	Value
urea	Workers	Skin contact		580 mg/kg
Remarks:	Continuous exposure			
	Consumers	Inhalation		125 mg/m3
Remarks:	Continuous exposure			
	Consumers	Ingestion		42 mg/kg
Remarks:	Continuous exposure			

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ammonium sulphate	Workers	Skin contact	Long-term systemic effects	34,7 mg/kg
	Workers	Inhalation	Long-term systemic effects	6,1 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	12,8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	3,04 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
urea	Fresh water	0,047 mg/l

## 8.2 Exposure controls

### Personal protective equipment

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

### 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 : odourless

pH : ca. 5, Concentration: 100 g/l (20 °C)

Bulk density : ca. 1.100 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : soluble

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Decomposition temperature : ca. 130 °C  
The product is not capable of self-sustaining progressive thermal decomposition (UN S1). To avoid thermal decomposition, do not overheat.

### 9.2 Other information

No data available

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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 : If product is heated above decomposition temperature toxic vapours may be released.

### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.  
To avoid thermal decomposition, do not overheat.

### 10.5 Incompatible materials

Materials to avoid : substances with an acid reaction  
alkaline reactive substances  
When mixed with ignitable substances, oxidizable substances:  
Risk of explosion if heated under confinement.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrose gases  
Evolution of ammonia under influence of alkalies.

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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): > 2.000 mg/kg

##### Components:

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### urea:

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

### Skin corrosion/irritation

#### Product:

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

### Repeated dose toxicity

#### Components:

##### urea:

Species: Rat  
NOAEL: 2.250 mg/kg  
Application Route: Oral

### 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.

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## SECTION 12: Ecological information

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### 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 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
Toxicity to bacteria	: EC20 (activated sludge): > 100 mg/l Exposure time: 0,5 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 (Leuciscus idus (Golden orfe)): > 6.810 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 24 h
Toxicity to algae	: (Scenedesmus quadricauda (Green algae)): > 10.000 mg/l Exposure time: 192 h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Endocrine disrupting properties

No data available



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## 12.7 Other adverse effects

### **Product:**

Additional ecological information	: 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. information on: Ammonium nitrate
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## 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.

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## 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
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## SECTION 15: Regulatory information

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

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

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## 15.2 Chemical Safety Assessment

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### SECTION 16: Other information

#### Full text of other abbreviations

(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

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