

## Nexur S

Version: 1.2

Revision Date:  
17.01.2018

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

#### 1.1 Product identifier

Trade name : Nexur S

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

Use of the Sub-  
stance/Mixture : Fertilizer

#### 1.3 Details of the supplier of the safety data sheet

Company : COMPO EXPERT GmbH  
Kroegerweg 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

Quality / Safety / Environment  
Telephone:+49 (0) 2151 - 579 - 0

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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.

#### 2.3 Other hazards

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Fertilizer  
fertilizer contains:  
Urea

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### 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		<= 75
ammonium sulphate	7783-20-2 231-984-1 01-2119455044-46-XXXX		<= 40

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

- Symptoms : Irritation  
Redness  
Nausea  
Vomiting  
Breathing difficulties  
Circulatory collapse

### 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.

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

Specific hazards during fire-fighting : Fire may cause evolution of:  
carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
ammonia  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

### 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

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.

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## 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 : When stored loose do not mix with other fertilizers. Protect

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areas and containers from moisture. Keep away from heat. Protect from contamination. Keep away from combustible material.

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

### 7.3 Specific end use(s)

Specific use(s) : Not relevant

## 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
urea	Workers	Skin contact		580 mg/kg
Remarks:	Continuous exposure			
	Consumers	Inhalation		125 mg/m <sup>3</sup>
Remarks:	Continuous exposure			
	Consumers	Ingestion		42 mg/kg
Remarks:	Continuous exposure			
ammonium sulphate	Workers	Inhalation	systemic effects	11,67 mg/m <sup>3</sup>
	Workers	Skin contact	systemic effects	42,667 mg/kg
Remarks:	Exposure time: 1 DAY			
	Consumers	Ingestion	systemic effects	6,4 mg/kg
Remarks:	Exposure time: 1 DAY			
	Consumers	Inhalation	systemic effects	1,667 mg/m <sup>3</sup>
	Consumers	Skin contact	systemic effects	12,8 mg/kg
Remarks:	Exposure time: 1 DAY			

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

Substance name	Environmental Compartment	Value
urea	Fresh water	0,047 mg/l
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Ceiling Limit Value	0,53 mg/l
	Estuary sediment	0,063 mg/l
	Soil	62,6 mg/kg

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### 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

- Appearance : prills
- Colour : yellow to brownish
- Odour : odourless
- pH : ca. 6 - 8, 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 : No data available
- Density : ca. 1,2 g/cm<sup>3</sup> (20 °C)

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according to Regulation (EC) No. 1907/2006



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Bulk density	: ca. 950 kg/m <sup>3</sup>
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
Viscosity	
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive

### 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

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Conditions to avoid : Avoid electro-static charge.

### 10.5 Incompatible materials

Materials to avoid : Nitrites  
nitrates

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Ammonia gas may be liberated at high temperatures.

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## SECTION 11: Toxicological information

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### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Remarks: The product has not been tested. The information is derived from the properties of the individual components.

##### Components:

###### **urea:**

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

###### **ammonium sulphate:**

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

Acute inhalation toxicity : LC50 (Guinea pig): 900 mg/l

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

#### Skin corrosion/irritation

##### Product:

Remarks: non-irritant  
The product has not been tested. The information is derived from the properties of the individual components.

##### Components:

###### **ammonium sulphate:**

Method: OECD Test Guideline 404  
Result: non-irritant

#### Serious eye damage/eye irritation

##### Product:

Remarks: non-irritant  
The product has not been tested. The information is derived from the properties of the individual components.

##### Components:

###### **ammonium sulphate:**

Result: non-irritant

#### Respiratory or skin sensitisation

##### Product:

Remarks: no sensitizing effect  
The product has not been tested. The information is derived from the properties of the individual

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components.

### Germ cell mutagenicity

**Product:**

Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

### Carcinogenicity

**Product:**

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

### Reproductive toxicity

**Product:**

Reproductive toxicity - Assessment : No toxicity to reproduction

### 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:**

**urea:**

Species: Rat

NOAEL: 2.250 mg/kg

Application Route: Oral

**ammonium sulphate:**

Species: Rat

NOAEL: 256 mg/kg

Application Route: Oral

Species: Rat

NOAEL: 300 mg/kg

Application Route: by inhalation



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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### 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

##### **ammonium sulphate:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 121,7 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 2.700 mg/l  
Exposure time: 18 Days
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 3,12 mg/l  
Exposure time: 70 Days  
Test Type: No data available

#### 12.2 Persistence and degradability

##### Product:

- Biodegradability : Remarks: readily biodegradable
- Physico-chemical removability : Remarks: No data available

##### Components:

##### **ammonium sulphate:**

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

#### 12.3 Bioaccumulative potential

##### Product:

- Bioaccumulation : Remarks: Does not bioaccumulate.

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### Components:

#### **ammonium sulphate:**

Bioaccumulation : Remarks: Does not bioaccumulate.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Remarks: No data available

### 12.6 Other adverse effects

#### Product:

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

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.

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

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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not relevant

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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

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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 Standardization; 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

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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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