



## COMPO Slow Release Fertilizer for Roses

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

#### 1.1 Product identifier

Trade name : COMPO Slow Release Fertilizer for Roses  
Product code : 000000001271201099

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

Use of the Sub-  
stance/Mixture : Private households (=general public = consumers)  
Fertilizers  
Recommended restrictions on use : To be used only where there is a recognised need. Do not exceed the appropriate dose rates.

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

Company : COMPO GmbH  
Gildenstraße 38  
D-48157 Münster  
Telephone : +49-0251/3277-0  
Telefax : +49 (0)251/326225  
E-mail address of person responsible for the SDS : info@compo.de

#### 1.4 Emergency telephone number

Central Safety & Environment  
Telephone:+49-251-3277-0 (7-17:30h on working days)

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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)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
16% nitrogen in relation to ammonium nitrate corresponds to 45,7% ammonium nitrate. :			
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27-XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	< 45
Natriumtetraborat Pentahydrat	12179-04-3 215-540-4 005-011-02-9	Repr. 1B; H360FD  specific concentration limit Repr. 1B; H360FD ≥ 6,5 %	< 0,2

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : If unconscious, place in recovery position and seek medical advice.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.  
Rinse mouth with water.  
If symptoms persist, call a physician.

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

None known.

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### 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 : Product is compatible with standard fire-fighting agents.

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

Specific hazards during fire-fighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
In the event of fire and/or explosion do not breathe fumes.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.  
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 : No special precautions required.  
Avoid contact with skin, eyes and clothing.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.  
Prevent further leakage or spillage.  
Wipe up with absorbent material (e.g. cloth, fleece).  
After cleaning, flush away traces with water.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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- Advice on safe handling : Take notice of the directions of use on the label.  
Handle in accordance with good industrial hygiene and safety practice.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapour or mist.  
Wash hands before breaks and at the end of workday.
- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : General industrial hygiene practice. Wash hands before breaks and at the end of workday. Keep away from food and drink.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep out of the reach of children. Store in original container.  
Keep tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage : Keep away from food and drink.  
Keep away from oxidizing agents and strongly acid or alkaline materials.
- Storage class (TRGS 510) : 5.1C, Ammonium nitrate and ammonium nitrate containing preparations
- Recommended storage temperature : 5 - 30 °C

### 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	Specific effects	36 mg/m <sup>3</sup>
Remarks:	Exposure time: 1 d			
	Workers	Skin contact	Specific effects	5,12 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Ingestion	Specific effects	2,56 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Inhalation	Specific effects	8,9 mg/m <sup>3</sup>
Remarks:	Exposure time: 1 d			
Natriumtetraborat Pentahydrat	Workers	Inhalation	Acute effects	17,04 mg/m <sup>3</sup>
	Workers	Inhalation	Chronic effects	17,04 mg/m <sup>3</sup>

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	Workers	Inhalation	Chronic effects, Systemic effects	9,8 mg/m <sup>3</sup>
	Workers	Skin contact	Chronic effects, Systemic effects	458,2 mg/kg
Remarks:	Exposure time: 24 h			
	Consumers	Inhalation	Acute effects	17,04 mg/m <sup>3</sup>
	Consumers	Ingestion	Acute effects	1,15 mg/kg
Remarks:	Exposure time: 24 h			
	Consumers	Inhalation	Chronic effects	17,04 mg/m <sup>3</sup>
	Consumers	Ingestion	Chronic effects, systemic effects	1,15 mg/kg
Remarks:	Exposure time: 24 h			
	Consumers	Inhalation	Chronic effects, systemic effects	4,9 mg/m <sup>3</sup>
	Consumers	Skin contact	Chronic effects, systemic effects	231,8 mg/kg
Remarks:	Exposure time: 24 h			

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

Substance name	Environmental Compartment	Value
ammonium nitrate	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Ceiling Limit Value	4,5 mg/l
Natriumtetraborat Pentahydrat	Fresh water	2,02 mg/l
	Soil	5,4 mg/l
	Air	
Remarks:	This product has no known ecotoxicological effects.	

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : not required under normal use  
Avoid contact with eyes.

Hand protection

Remarks : not required under normal use  
Skin should be washed after contact.

Skin and body protection : Long sleeved clothing

Respiratory protection : not required  
Do not breathe vapours or spray mist.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : various

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Odour	:	slight
Melting point/freezing point	:	Decomposes before melting.
Initial boiling point and boiling range	:	Not applicable
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Decomposition temperature	:	> 130 °C
Decomposition temperature	:	No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat. The product is capable of self-sustaining progressive thermal decomposition.
pH	:	> 4,5 Concentration: 100 g/l
Solubility(ies) Water solubility	:	partly soluble
Vapour pressure	:	Not applicable
Bulk density	:	0,9 - 1,3 kg/m <sup>3</sup>

### 9.2 Other information

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

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



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### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:  
Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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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 : Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Calculation method

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Calculation method

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Calculation method

#### Skin corrosion/irritation

**Product:**

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### Serious eye damage/eye irritation

**Product:**

Method : OECD Test Guideline 405  
Result : No eye irritation  
Remarks : Based on data from similar materials

Method : OECD Test Guideline 437  
Result : No eye irritation  
Remarks : Based on data from similar materials

#### Respiratory or skin sensitisation

**Product:**

Remarks : Not classified

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### Carcinogenicity

**Product:**

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

### STOT - single exposure

**Product:**

Remarks : Not classified

### STOT - repeated exposure

**Product:**

Remarks : Not classified

## 11.2 Information on other hazards

### Further information

**Product:**

Remarks : Health injuries are not known or expected under normal use.

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 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

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available





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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system.  
Dispose of product to an approved waste disposal plant.

The waste codes are manufacturer's recommendations based on the designated use of the product.  
European Waste Catalog: 02 01 09 Waste of agricultural chemicals other than those mentioned in 02 01 08.

Contaminated packaging : Do not re-use empty containers.  
Dispose of container to an approved waste disposal plant.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : UN 2071  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : UN 2071  
IATA : UN 2071

#### 14.2 UN proper shipping name

ADN : AMMONIUM NITRATE BASED FERTILIZER  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : AMMONIUM NITRATE BASED FERTILIZER  
IATA : Ammonium nitrate based fertilizer

#### 14.3 Transport hazard class(es)

ADN : 9  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : 9  
IATA : 9

#### 14.4 Packing group

ADN  
Packing group : Not assigned by regulation  
Classification Code : M11  
ADR : Not regulated as a dangerous good

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**RID** : Not regulated as a dangerous good

**IMDG**

Packing group : III  
Labels : 9  
EmS Code : F-H, S-Q

**IATA (Cargo)**

Packing instruction (cargo aircraft) : 958  
Packing instruction (LQ) : Y958  
Packing group : III  
Labels : Verschiedene gefährliche Stoffe und Gegenstände

**IATA (Passenger)**

Packing instruction (passenger aircraft) : 958  
Packing instruction (LQ) : Y958  
Packing group : III  
Labels : Verschiedene gefährliche Stoffe und Gegenstände

### 14.5 Environmental hazards

**ADN**

Environmentally hazardous : no

**ADR**

: Not regulated as a dangerous good

**RID**

: Not regulated as a dangerous good

**IMDG**

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Natriumtetraborat Pentahydrat

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

ammonium nitrate  
(Restricted explosives precursors - ANNEX I, regulated explosives precursor.  
Suspicious transactions, significant

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disappearances and thefts of regulated explosives precursors have to be reported to national contact points.)

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

### Other regulations:

TRGS 511 'Ammonium nitrate'  
German "Hazardous Substances" legislation ( Gefahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group B II)

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16: Other information

#### Full text of H-Statements

H272 : May intensify fire; oxidizer.  
H319 : Causes serious eye irritation.  
H360FD : May damage fertility. May damage the unborn child.

#### Full text of other abbreviations

Eye Irrit. : Eye irritation  
Ox. Sol. : Oxidizing solids  
Repr. : Reproductive toxicity

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; AIIC - 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 sub-

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stance; 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; 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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