

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



## COMPO Slow Release Lawn Fertilizer

Version	Revision Date:	SDS Number:	Date of last issue: 31.10.2018
3.2	17.01.2019	C3357	Date of first issue: 28.08.2018

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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 Lawn Fertilizer  
Product code : 000000001328702066

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

Use of the Sub-  
stance/Mixture : Fertiliser

#### 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 : info@compo.de  
responsible for the SDS

#### 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

Chemical nature : Mixture  
Fertiliser

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
If the content of ammonium nitrate is $\leq 45\%$ , this corresponds to a nitrogen content of $<16\%$ . The product complies with Regulation (EC) No. 1907/2006 (REACH Regulation). The product does not fall under the regulation (EU) No. 98/2013 (marketing and use of starting materials for explosives) and also not under the German chemical prohibition regulation (ChemVerbotsV)! :			
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27-XXXX	Ox. Sol. 3; H272 Eye Irrit. 2; H319	$\geq 0 - \leq 10$
disodium tetraborate pentahydrate	12179-04-3 215-540-4 005-011-02-9 01-2119490790-32-XXXX	Repr. 1B; H360FD Eye Irrit. 2; H319	$\leq 0,2$

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.  
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.  
Clean mouth with water and drink afterwards plenty of water.  
If symptoms persist, call a physician.

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

Symptoms : No information available.



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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) : 13, Non Combustible Solids
- 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

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
disodium tetraborate pentahydrate	12179-04-3		3 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	8;(II)			
Further information	Commission for dangerous substances, The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
			1 mg/m <sup>3</sup>	ACGIHTLV

Contains no substances with occupational exposure limit values.



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### 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			

### 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

## 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

- Appearance : granular
- Colour : various
- Odour : odourless
- pH : 5 - 8 (20 °C)  
Concentration: 100 g/l
- Melting point/range : No data available
- Boiling point/boiling range : Not applicable
- Flammability (solid, gas) : No data available

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Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Bulk density : 800 - 1.000 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : soluble

Decomposition temperature : > 130 °C

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Self-ignition : not auto-flammable

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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.

### 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 toxicological effects

##### Acute toxicity

###### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Acute inhalation toxicity : Remarks: No data available  
Acute dermal toxicity : Remarks: No data available

###### Components:

###### **ammonium nitrate:**

Acute oral toxicity : LD50 (Rat): 2.950 mg/kg  
Method: OECD Test Guideline 401  
Acute inhalation toxicity : LC50 (Rat): > 88,8 mg/l  
Exposure time: 4 h  
Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

###### **disodium tetraborate pentahydrate:**

Acute oral toxicity : LD50 (Rat): 2.500 mg/kg  
Method: OECD Test Guideline 401  
Acute inhalation toxicity : LC50 (Rat): > 2,0 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: see user defined free text

##### Skin corrosion/irritation

###### Product:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

###### Components:

###### **ammonium nitrate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation



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### disodium tetraborate pentahydrate:

Species : Rabbit  
Method : see user defined free text  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

#### Components:

##### ammonium nitrate:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation

##### disodium tetraborate pentahydrate:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing after 7 to 21 days

### Respiratory or skin sensitisation

#### Product:

Result : Does not cause skin sensitisation.

#### Components:

##### ammonium nitrate:

Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.

##### disodium tetraborate pentahydrate:

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Product:

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





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### Components:

#### **ammonium nitrate:**

Genotoxicity in vitro : Test system: Escherichia coli  
Method: OECD Test Guideline 471  
Result: negative

Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.

#### **disodium tetraborate pentahydrate:**

Germ cell mutagenicity- Assessment : In vitro tests showed mutagenic effects

### **Carcinogenicity**

#### Product:

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

### Components:

#### **ammonium nitrate:**

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

#### **disodium tetraborate pentahydrate:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

### **Reproductive toxicity**

#### Product:

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

### Components:

#### **ammonium nitrate:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

#### **disodium tetraborate pentahydrate:**

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. May damage the unborn child.



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### 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:**

**ammonium nitrate:**

Species : Rat  
NOAEL : > 1.500 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 422

### Further information

**Product:**

Remarks : Danger of methaemoglobin formation.  
The product was not tested. The statement was derived from products of similar structure and composition.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: Directive 84/449/EEC, C.2

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: DIN 38412

Toxicity to microorganisms : EC0 (Pseudomonas putida): ca. 640 mg/l  
Exposure time: 16 h  
Test Type: activated sludge

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Method: No data available

### **Components:**

#### **ammonium nitrate:**

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 490 mg/l  
Exposure time: 96 h
- Toxicity to algae : EC50 (diatoms): > 1.700 mg/l  
Exposure time: 10 d

#### **disodium tetraborate pentahydrate:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 79,7 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 242 mg/l  
Exposure time: 24 h
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (algae)): 52,4 mg/l  
Exposure time: 96 h

## 12.2 Persistence and degradability

### **Product:**

- Physico-chemical removability : DOC reduction  
ca. 85 %  
Method: OECD 301E/92/69/EWG, C.4-B  
Remarks: Readily eliminated from water

### **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.
- Partition coefficient: n- : log Pow: -3,1



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octanol/water

### 12.4 Mobility in soil

**Product:**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

### 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 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 contents/ container 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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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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

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### 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 and the IBC Code

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

### 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; AICS - Australian Inventory of Chemical Substances; 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 Develop-

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ment; 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; 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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