

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006



COMPO Universal Longterm fertilizer

Version	Revision Date:	SDS Number:	Date of last issue: -
4.0	21.01.2019	C5272	Date of first issue: 21.01.2019

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

1.1 Product identifier

Trade name : COMPO Universal Longterm fertilizer
Product code : 000000002353301061

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
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)

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 : 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	≤ 45
disodium tetraborate pentahydrate	12179-04-3 215-540-4 005-011-02-9 01-2119490790-32-XXXX	Repr. 1B; H360FD Eye Irrit. 2; H319	$< 0,2$

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.

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.

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.

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

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
disodium tetraborate pentahydrate	12179-04-3		3 mg/m ³	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 ³	ACGIHTLV



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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 ³
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 ³
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 : solid
- Colour : various
- Odour : odourless
- pH : ca. 5 (20 °C)
Concentration: 100 g/l
- Melting point/range : No data available
- Flammability (solid, gas) : The product is not flammable.
- Bulk density : ca. 1.150 kg/m³

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Solubility(ies)
Water solubility : soluble

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

Explosive properties : Not explosive

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

9.2 Other information

Self-ignition : not auto-flammable

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 (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

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



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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

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



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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 : non-sensitizing

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

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



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essment

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.

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.



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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

Experience with human exposure

Product:

General Information : Danger of methaemoglobin formation.

SECTION 12: Ecological information

12.1 Toxicity

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

Components:

ammonium nitrate:

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



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12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -3,1

12.4 Mobility in soil

Product:

Mobility : Remarks: Groundwater contamination is unlikely.

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

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.

SECTION 14: Transport information

14.1 UN number



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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 fertilizers

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
Remarks : Not relevant

ADR : Not regulated as a dangerous good
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) : 909
Packing instruction (LQ) : Y909
Packing group : III
Labels : Verschiedene gefährliche Güter

IATA (Passenger)
Packing instruction (passenger aircraft) : 958
Packing instruction (LQ) : Y958
Packing group : III

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Labels : Verschiedene gefährliche Güter

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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 : WGK 1 slightly water endangering (Germany)

Other regulations:

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

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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

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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 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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