

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



COMPLESAL 12-8-16

Version 1

Print Date 22.05.2009

Revision Date 22.05.2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : COMPLESAL 12-8-16

Use of the Substance/Preparation : Fertiliser

Company : COMPO GmbH & Co. KG
Gildenstraße 38
D-48157 Münster

Telephone : +49-0251/3277-0
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Telephone: +49-251-3277-0

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

No particular dangers occur if the regulation/notes for storage and handling are observed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

NPK - fertilizer containing: Ammonium Nitrate, ammonium salts, phosphates, salts of calcium, potassium, magnesium and trace elements.

Hazardous components

Chemical Name	CAS-No.	EINECS-No.	Index-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Ammonium Nitrate	6484-52-2	229-347-8				>= 10,00 - <= 45,00

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Inhalation : Keep patient calm, remove to fresh air, seek medical attention.
If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary.
Immediately inhale corticosteroid dose aerosol (e.g.

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dexamethasone).

Skin contact : Wash off with soap and water.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion : Rinse mouth immediately and then drink plenty of water, seek medical attention.

Notes to physician

Risks : On inhalation of decomposition products:
Risk of pulmonary oedema.
Symptoms can appear later.
Danger of methaemoglobin formation.

Treatment : Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinanaemia.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water

Extinguishing media which shall not be used for safety reasons : Foam
Dry chemical
Carbon dioxide (CO₂)
Sand

Specific hazards during fire fighting : At temperatures above 130 °C, dangerous decomposition gases can be emitted:
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia

Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not empty into drains.
Retain and dispose of contaminated wash water.

Methods for cleaning up : Use mechanical handling equipment.

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7. HANDLING AND STORAGE

Handling

Advice on safe handling : Protect against contamination.
Keep away from direct sunlight.
Protect against heat.
Protect against moisture.

Advice on protection against fire and explosion : The product is incombustible. It can lower the ignition temperature of combustible substances.
Keep away from heat and sources of ignition.
Keep away from combustible material.

Storage

Requirements for storage areas and containers : Keep away from heat.
Keep away from sources of ignition - No smoking.
Keep away from combustible material.
Avoid contamination.
When stored loose do not mix with other fertilizers.
Protect against humidity (product is hygroscopic and tends to cake or disintegrate)

Storage with other substances : Store well away from other substances.

German storage class : Oxidising Solids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.
Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

Hygiene measures : At the end of the shift the skin should be cleaned and skin-care agents applied.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : granular

Colour : blue

Odour : almost odourless

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pH	: ca.5 at 100 g/l (20 °C)
Bulk density	: ca.1.150 kg/m ³
Water solubility	: mainly soluble

10. STABILITY AND REACTIVITY

Materials to avoid	: Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.
Hazardous decomposition products	: Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia
Thermal decomposition	: ca.130 °C To avoid thermal decomposition, do not overheat.
Hazardous reactions	: Evolution of ammonia under influence of alkalis.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: > 2.000 mg/kg
Skin irritation	: rabbit Result: non-irritant Method: OECD Test Guideline 404
Eye irritation	: rabbit Result: non-irritant Method: OECD Test Guideline 405
Further information	: The product was not tested. The statement was derived from products of similar structure and composition.
Further information	: Danger of methaemoglobin formation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	: static test LC50 Species: Cyprinus sp.
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	Dose: 422 mg/l Exposure time: 48 h
aquatic invertebrates	: static test EC50 Species: Daphnia Dose: 555 mg/l Exposure time: 48 h
Toxicity to algae	: other No observed effect concentration Species: green algae Dose: 83 mg/l Exposure time: 168 h Method: no data available
Toxicity to bacteria	: other EC20 Species: activated sludge Dose: ca. 850 mg/l Exposure time: 0,5 h Method: no data available Remarks: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
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. At higher pH values, which can be found in natural surface waters, an increase of toxic effects on aquatic organisms may be expected.

13. DISPOSAL CONSIDERATIONS

Product	: Test for use in agriculture. 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.
Waste key for the unused product	: 02 01 09: Wastes of chemicals for the agriculture excepted of those, which are listed under 02 01 08

14. TRANSPORT INFORMATION

Further Information

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Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

15. REGULATORY INFORMATION

Labelling according to EC Directives

The product does not require a hazard warning label in accordance with EC Directives.

National legislation

Further information : German "Hazardous Substances" legislation (Gefahrstoffverordnung) appendix III, No. 6 (Ammonium Nitrate group C III)

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

Other regulations : TRGS 511 'Ammonium nitrate'

16. OTHER INFORMATION

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.