



Avant Natur

Version 1
Revision Date 05.07.2006

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

Product information

Trade name : Avant Natur

Use of the Substance/Preparation : fertiliser

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

Telephone : +49-0251/3277-0
Telefax : +49-0251/326225

Company : COMPO Austria GmbH
Hietzinger Hauptstraße 119
A-1131 Wien

Telephone : +43-18766393-0
Telefax : +43-18766393-116

Emergency telephone number : Central Safety & Environment
Telephone: +49-251-3277-0

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Mixture on basis of soya protein hydrolyzate.

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

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

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

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

4. FIRST AID MEASURES

Inhalation : On inhalation of decomposition products:



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- Immediately inhale corticosteroid dose aerosol (e.g. dexamethasone).
Keep patient calm, remove to fresh air, seek medical attention.
- Skin contact : Wash off immediately with soap and plenty of water.
- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If symptoms persist, seek medical advice.
- Ingestion : Rinse mouth immediately and then drink plenty of water, seek medical attention.

Notes to physician

- Risks : Danger of methaemoglobin formation.
Inhalation of decomposition products can lead to lung oedema.
Symptoms can appear later.
- Treatment : Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinanaemia.
On inhalation of decomposition products:
Pulmonary odema prophylaxis.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : water
- Specific hazards during fire fighting : In case of combustion evolution of dangerous gases possible.
At temperatures above 130 °C, dangerous decomposition gases can be emitted:
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
In the event of fire and/or explosion do not breathe fumes.
- Further information : Cool endangered containers with water-spray.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure adequate ventilation.
Avoid contact with skin and eyes.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Retain and dispose of contaminated wash water.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid



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Additional advice : binder, universal binder, sawdust).
Flush away residues with water.
: In case in involuntary exposition of the product contact producer or supplier.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Keep away from heat.
Keep away from direct sunlight.
Do not allow to dry.

Advice on protection against fire and explosion : Keep away from combustible material.
Risk of explosion if heated under confinement.
The product is incombustible. It can lower the ignition temperature of combustible substances.

Storage

Requirements for storage areas and containers : Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

German storage class : 12

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Hand protection : For prolonged or repeated contact use protective gloves.
Chemical resistant protective gloves (EN 374).
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):
The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye protection : Tightly fitting safety goggles (splash goggles) (EN 166)

Hygiene measures : Hands and/or face should be washed before breaks and at the end of the shift.
At the end of the shift the skin should be cleaned and skin-care agents applied.
When using, do not eat, drink or smoke.

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9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form : liquid

Colour : product specific

Odour : characteristic

Safety data

pH : approx.6
at (20 °C)

crystallization temperature : approx.-5 °C

Boiling range : approx.110 °C

Density : approx.1,24 g/cm³
at 20 °C

Water solubility : soluble

10. STABILITY AND REACTIVITY

Materials to avoid : Sulphur, chloride, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder.

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Nitrogen monoxide, nitrogen dioxide, dinitrogenoxide, ammonia

Thermal decomposition : approx.130 °C
To avoid thermal decomposition, do not overheat.
Thermal decomposition above the indicated temperature is possible.

Hazardous reactions : Evolution of ammonia under influence of alkalies.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: > 2.000 mg/kg

Skin irritation : Remarks:Prolonged contact with the product can result in skin irritation.

Eye irritation : Remarks: Contact with eyes may cause irritation.



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Further information : If swallowed danger of methemoglobin formation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50
Species: Carp
Dose: 422 mg/l
Exposure time: 48 h

Toxicity to algae : No observed effect concentration
Species: green algae
Dose: 83 mg/l
Exposure time: 168 h

Additional ecological information : Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

Product : fertiliser
Test for use in agriculture.

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

Not dangerous goods in the meaning of ADR/RID, ADN, 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

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



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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.