

## **EU-SAFETY DATA SHEET**      *fleur ami*<sup>®</sup> **Hydroponic Fertilizer**

according to EEC-Regulation 91/155/EEC

### **1. Identification of the substance/preparation and of the company/undertaking**

Description for substance or preparation

#### ***fleur ami*<sup>®</sup> Hydroponic Fertilizer 6-4-5**

Usage of the substance/preparation

See designation of the substance or preparation

#### **Firm name**

fleur ami<sup>®</sup> GmbH, Rosenstrasse 77, D-47918 Tönisvorst

fon +49 (0) 21 51/70 90 30

fax +49 (0) 21 51/70 90 34

#### **Telephone in case of emergencies / Office for advice**

Advisory office in case of poisoning:

Tel.:

#### **Telephone number of the firm in case of emergency:**

Tel.: +49 (0) 21 51/70 90 30

### **2. Composition/information ingredients**

2.1.	Chemical name	% sector	symbol	R-phrases	CAS	Einecs, Eilincs
	Ammonium nitrate	1-<20	0	8-9-	229-347-8	44

See point 16 for the text of the R-phrases

### **3. Hazards identification**

#### **3.1. To people:**

See point 11 and 15

Preparation is not classed as dangerous according to the regulations 1999/45/EU

#### **3.2. To the environment:**

See point 12

Can contribute to the eutrophication of waters

### **4. First aid measures**

#### **4.1. Inhalation:**

Supply fresh air to the person

Remove the person from the dangerous area

#### **4.2. Eye contact:**

Wash thoroughly for several minutes using ample water. Seek medical help if necessary.

Keep Data Sheet available.

#### **4.3. Skin contact:**

Wash thoroughly using ample water – remove contaminated clothing immediately.

If skin irritation occurs (redness etc.), consult doctor.

#### **4.4. Ingestion:**

Call doctor immediately – have Data Sheet available.

#### **4.5. Special resources necessary for first aid:**

n.g.

### **5. Fire-fighting measures**

#### **5.1. Suitable extinguishing media:**

Water jet spray

- 5.2. Unsuitable fire extinguisher for reasons of safety:  
n.g.
- 5.3. Special dangers caused by the substance or preparation itself, results of fire/burning, or ensuring gases:  
In case of fire the following can develop:  
Nitrose Gase  
Ammonia  
Dried, crystalline residues are able to detonate
- 5.4. Special protective equipment for fire fighting:  
Protective respirator with independent air supply  
According to size of fire  
Full protection
- 5.5. Further information:  
Dispose contaminated fire fighting water according to the official regulations.
- 6. Accidental release measures**  
See point 13 as well as personal protection equipment, see point 8.
- 6.1. Personal precautions:  
Avoid contact with eyes.  
If necessary consider slip hazard.  
Remove ignition sources, do not smoke.
- 6.2. Environmental measures:  
Prevent from entering drainage system.  
If leakage occurs, dam up.
- 6.3. Procedure for cleaning up:  
Collect using absorbant material (e.g. Universal binding medium), and dispose according to point 13.
- 7. Handling and storage**
- 7.1. Handling:  
Tips for safe handling:  
See point 6.1.  
General hygiene measures for the handling of chemicals are applicable.  
Pay attention to the label as well as operating instructions.  
Meals, drinking, smoking, as well as keeping food in the workspace is forbidden.  
Wash hands before doing breaks and with end of work.  
Note TRGS 511.
- 7.2. Storage:  
Requirements for storage rooms and containers:  
Not to be stored in gangways or stair wells.  
Only store products unopened, in original packing.  
Special storage conditions:  
See point 10.2  
Avoid dry up.  
Keep inaccessible for unauthorized ones.
- 8. Exposure controls and personal protection**  
Provide good ventilation. This can be achieved by local exhaust or general exhaust air.  
If this is not sufficient to be carried in order to hold the concentration under the MAK-values, a suitable respiratory protection is to wear.

Chemical name / % sector / MAK-value / TRK-value / BAT-value Ammonium nitrate 1<20
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- 8.1 Respiratory protection: In normal cases not required.
- 8.2. Hand protection: Rubber gloves (EN 374) are recommended
- 8.3. Eye protection: Tight fitting protective goggles with side protection (EN 166), in case of danger of splashes.
- 8.4. Body protection: Protective working garments (e.g. Safety shoes (EN 344), long-sleeved working garment)

**Additional information to the skin protection – no test were accomplished.**

The selection was selected with preparing after best knowledge and chosen by the information of the contents materials. The selection of materials was derived from the data of the glove manufacturers.

The final selection of the glove material must take place considering of the break-through times, permeation rates and the degradation. The selection of a suitable glove depends not only on the material, but also on further quality criteria and from manufacturer to manufacturer. While preparing, the stability of glove materials is not ahead predictable and must be examined therefore before usage. The exact break-through time of the glove material can be asked from the protection glove manufacturer and need to be kept

**9. Physical and chemical properties**

Physical state:	liquid
Colour:	k.D.v
Odour:	characteristic
pH-value undiluted:	6.5 –6.8
Boiling point/range (°C)	k.D.v
Flashpoint in °C:	k.D.v.
Steam pressure:	k.D.v.
Relative density ( g/ml ):	1.234
Solubility in water:	mixable

**10. Stability and reactivity**

- 10.1. Conditions to avoid:  
See point 7  
Do not dry-up the solution
- 10.2. Material to avoid:  
See point 7  
Avoid contact to oxidants.  
Nitrits  
Avoid contact with intense alkali.  
Avoid contact with other chemicals.
- 10.3. Hazardous decomposition products:  
See point 5.3.

**11. Toxicological information**

- 11.1. Acute toxicity as well as immediate appearing effect:
  - 11.1.1. Ingestion, LD50 rat oral (mg/kg): k.D.v.
  - 11.1.2. Inhalation, LC50 rat inhal. (mg/l/4h): k.D.v.
  - 11.1.3. Skin contact, LD50 rat dermal (mg/kg): k.D.v.
  - 11.1.4. Eye contact: k.D.v.
- 11.2. Chronic as well as belayed appearing effects:
  - 11.2.1. Sensitization: k.D.v.
  - 11.2.2. Carcinogenicity: k.D.v.

- 11.2.3. Mutagenicity: k.D.v.  
11.2.4. Reproductive toxicity: k.D.v.  
11.2.5. Narcosis: k.D.V.  
11.3. Further information:

No classification according to calculation method.

## 12. Ecological information

Water hazard class:	1
Self classification:	yes ( VwVwS )
Degradability: biodegradable	
Behaviour in sewage plants:	k.D.v.
Aquatic toxicity:	k.D.v.
Ecological toxicity:	k.D.v.

## 13. Disposal considerations

- 13.1. For the material / preparation / residue:  
EEC disposal code no.:

The named disposal code is a recommendation due to the prospective use of this product.

The disposal code might varies due to the special use and disposal conditions of the user

02 01 99 Disposals a.n.g.

06 09 99 Disposals a.n.g.

Dried, crystalline residues are able to detonate.

### Recommendation:

Pay attention to local and national official regulations.

For example suitable combustion plants

Deposit for example on suitable dump.

- 13.2 For contaminated packing material:

See point 13.1.

Pay attention to local and national official regulations.

Clean with water, do not dry-out.

## 14. Transport information

General statements:	
UN-Number:	n.a.
Road / Rail-transport ( GGVS / ADR / GGVE / RID ):	
Class/Packing-group:	n.a.
Classification code:	n.a.
Dangerous number:	n.a.
LQ:	n.a.
Additional information:	

## 15. Regulatory

Classification according to Dangerous Product Regulations incl. EEC Guidelines (67/548/EEC and 1999/45/EEC)	
Symbol:	Not applicable
Description of danger:	—
R-phrases:	—
S-phrases:	—
Additions:	n.a.
VbF:	n.a.
Consider restrictions:	yes

Ammonium-Nitrate containing preparation, which is harmless in aqueous solution or suspension, in crystallized condition however detonationable.  
Consider "GefStoffV" appendix Nr.2.  
Group D

#### 16. Other Information

These details refer to the product as it is delivered.

Storage class VCI (GER): 10-13

Revised points: n.a.

Pay attention to fertilizer legislation!

8 danger of fire during contact with inflammable materials.

9 danger of explosion when mixture with combustible liquids.

44 danger of explosion with heating up under inclusion.

#### Legend:

n.a. = not applicable

n.v., k.D.v. = not available

n.g. = not checked

MAK = Maximum concentration per work place in ml/m<sup>3</sup> = ppm

BAT = Biological tolerance for work places

TRK- Technical arranging concentration,

VbF = Regulations for flammable liquids

TRbF = Technical regulations for flammable liquids

WGK = Water hazard class

WGK3 = very hazardous to water

WGK2 = hazardous to water

WGK1 = slightly hazardous to water

VOC-CH = Volatile organic compounds (flüchtige organische Verbindungen (VOCV))

AOX = adsorbable organic halogen compound.

The statements made here should describe the product with regard to the necessary safety precautions – they are not meant to guarantee definite characteristics – but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

Fleur Ami GmbH,

Tel. +49 / 21 51 / 70 90 30