

Safety Data Sheet

according to 1907/2006/EC, Article 31, Annex II

Printing date 02.01.2008

Revision: 02.01.2008

1 Identification of the substance/preparation and of the company/undertaking

Product details**Trade name:** Lignohumate AM**Application of the substance / the preparation***Agricultural production, chemical industry, cosmetic industry***Manufacturer/Supplier:**

AMAGRO s.r.o.

28. pluku 27/443

101 00 Praha 10

IČ 25725921

Competent person *Lubomír Rákos, l.rakos@amagro.com, Tel.: +420602387144***Information in case of emergency:***Toxicological center +420224919293, +420224915402, +420224914575*


2 Hazards identification

Hazard description:*Xi Irritant***Information concerning particular hazards for human and environment:***The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.**R 36/37/38 Irritating to eyes, respiratory system and skin.***Classification system:***The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

3 Composition/information on ingredients

Chemical characterization**Description:** *Mixture salts humic and fulvic acids and microelements in chelate structure***Dangerous components:**CAS: 1415-93-6 *Humic acids*

10-25%

EINECS: 215-809-6  Xi; R 36/37/38**Additional information:** *For the wording of the listed risk phrases refer to section 16.*

4 First aid measures

General information:*Display if health troubles or in the event of doubtful find out leakage help, eventually inform doctor and give to him data from hereof MSDS***After inhalation:** *Supply fresh air; consult doctor in case of complaints.***After skin contact:** *Immediately wash with water and soap and rinse thoroughly.***After eye contact:***Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.***After swallowing:** *If symptoms persist consult doctor.*

5 Fire-fighting measures

Suitable extinguishing agents:*Use fire extinguishing methods suitable to surrounding conditions.**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

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Protective equipment: *No special measures required.*

6 Accidental release measures

Person-related safety precautions:*Wear protective equipment. Keep unprotected persons away.***Measures for environmental protection:***Dilute with plenty of water.**Do not allow product to reach sewage system or any water course.***Measures for cleaning/collecting:***Pick up mechanically.**Dilute with plenty water.***Additional information:***See Section 13 for disposal information.**See Section 8 for information on personal protection equipment.**See Section 7 for information on safe handling.*

7 Handling and storage

Handling:**Information for safe handling:** *No special measures required.***Information about fire - and explosion protection:** *No special measures required.***Storage:****Requirements to be met by storerooms and receptacles:***Store only in the original receptacle.***Information about storage in one common storage facility:** *Not required.***Further information about storage conditions:** *Store in dry conditions.***Storage class:****Class according to regulation on flammable liquids:** *Void*

8 Exposure controls/personal protection

Additional information about design of technical facilities:*No further data; see item 7.***Ingredients with limit values that require monitoring at the workplace:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.***Personal protective equipment:****General protective and hygienic measures:***Keep away from foodstuffs, beverages and feed.**Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.**Avoid contact with the eyes and skin.***Respiratory protection:** *Not necessary if room is well-ventilated.***Protection of hands:** *Protective gloves and protective skin cream***Eye protection:** *Safety glasses***Body protection:** *Protective work clothing***Boots made out of rubber.****Apron made out of PVC.**

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9 Physical and chemical properties

General Information

Form: *slivers powder*
Colour: *Dark brown*
Odour: *like vanilly*

Change in condition

Melting point/Melting range: *Undetermined.*
Boiling point/Boiling range: *Undetermined.*
Flash point: *Not applicable.*
Self-igniting: *Product is not selfigniting.*
Danger of explosion: *Product does not present an explosion hazard.*
Density at 20°C (68°F): *0.740 g/cm³ (ISO 53.11.83)*
Solubility in / Miscibility with water: *Soluble.*
pH-value at 20°C (68°F): *8.5-10*

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Materials to be avoided:

Dangerous reactions *No dangerous reactions known.*

Dangerous decomposition products: *No dangerous decomposition products known.*

11 Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: *Irritant to skin and mucous membranes.*

on the eye: *Irritating effect.*

Sensitization: *No sensitizing effects known.*

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

Additional ecological information:

General notes:

Negative ecological effects are, according to the current state of knowledge, not expected.

13 Disposal considerations

Product:

Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Uncleaned packaging:

Recommendation: *Disposal must be made according to official regulations.*

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Recommended cleansing agents: *Water, if necessary together with cleansing agents.***14 Transport information**

Land transport ADR/RID (cross-border) *Isn't classified in light of ADR yell dangerous goods*
 Maritime transport IMDG:
 Marine pollutant: *No*

15 Regulatory information**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:*Xi Irritant***Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

2 Keep out of the reach of children.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

National regulations:

Classification according to VbF: *Void*

Waterhazard class: *Generally not hazardous for water.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

36/37/38 Irritating to eyes, respiratory system and skin.

Sources

SAX-Dangerous properties industrial materials

Merck&Co-Index Merck

SIGMA ALDRICH-Data about chemical safeness

Limits boundarz threshold values from American conference government