

MATERIAL SAFETY DATA SHEET
acc. to 91/155/EEC - ISO 11014-1:1994(E)



Trade Name: PERLHUMUS

Printing date 04/03/2010

Reviewed on 05/08/2003

1. IDENTIFICATION OF SUBSTANCE

- **Product details**
- **Trade name:** PERLHUMUS
- **Article number:** 00101
- **Application of the substance / the preparation:** Intermediate
- **Manufacturer/Supplier:**
Humintech GmbH
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D-40549 Düsseldorf/ Germany
www.humintech.com
info@humintech.com
Tel: +49 211 50 66 57 0
Fax: +49 211 50 66 57 22
- **Information:** see: Section 16 (Contact)
- **Emergency information:** see: Manufacturer/Supplier

2. COMPOSITION/ DATA ON COMPONENTS

- **Chemical characterization:** Humic acid
- **Chemical state:** Solid
- **CAS No. Designation:** 1415-93-6
- **Identification number(s):**
- **EINECS number:** 215-809-6

3. HAZARDS IDENTIFICATION

- **Hazard designation:**
Not considered as dangerous product according to Directive 67/548/EWG.
- **Information pertaining to particular dangers for man and environment:**
Not considered as dangerous product according to Directive 67/548/EWG.
- **Additional information:**
As chemicals are potentially dangerous they should only be handled by trained staff.

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4. FIRST AID MEASURES

- **General information:**
No special measures required.
- **After inhalation:**
Seek medical treatment in case of complaints.
- **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

5. FIRE FIGHTING MEASURES

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Protective equipment:**
Wear self-contained respiratory protective device. Wear full protective suit.

6. ACCIDENTAL RELEASE MEASURES

- **Person-related safety precautions:**
Ensure adequate ventilation. Avoid formation of dust.
- **Measures for environmental protection.**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/ collecting:**
Collect mechanically.

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7. HANDLING AND STORAGE

- **Handling**

- **Information for safe handling:**

Ensure good ventilation/ exhaustion at the workplace.

- **Information about protection against explosions and fires:**

Keep ignition sources away – Do not smoke.

Dust can combine with air to form an explosive mixture.

- **Storage**

- **Requirements to be met by storerooms and containers:**

No special requirements.

- **Information about storage in one common storage facility:**

Not required.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

- **Storage class:**

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **Additional information about design of technical systems:**

No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

Not applicable.

- **Personal protective equipment**

- **General protective and hygienic measures:**

Keep away from foodstuff, beverages and feeding stuff. Take off polluted clothes. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

- **Breathing equipment:**

While formation of dust. Not necessary if room is well-ventilated.

- **Eye protection:**

Tightly sealed safety glasses

- **Body protection.**

Protective work clothing

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9. PHYSICAL AND CHEMICAL PROPERTIES

• **General information:**

Form: Solid
Colour: Dark brown
Odour: Not distinguishable

• **pH-value:** 4-6

• **Change in physical state:** above 250°C destroyed to CO₂, H₂O and soot
Melting point/ Melting range: Not determined
Boiling point/ Boiling range: Not applicable

• **Flash point:** not applicable

• **Inflammability (solid, gaseous):** Product is not inflammable.

• **Danger of explosion:** Product does not present an explosion hazard

• **Bulk density:** approx. 0.8 g/cm³

• **Solubility in water:** low

10. STABILITY AND REACTIVITY

• **Thermal decomposition/ Conditions to be avoided:**
Heating

• **Materials to be avoided:**
Strong Oxidants

• **Dangerous reactions:**
No information available.

• **Dangerous products of decomposition:**
No information available.

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11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:**
LD50/ Oral/ rat: mg/kg > 11,5 g/kg – very weakly toxic
LC50/ Inhal/ rat: mg/l
- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **After inhalation:** No irritating effect.
- **Additional information:** The product has to be handled with the necessary caution.

12. ECOLOGICAL INFORMATION

- **General notes:**
Generally not hazardous for water.
- **Remark:**
Do not allow to enter ground water, waters or sewage water systems.
- **Behavior and environmental fate:**
Spontaneous coupling by biochemical reaction in soil.

13. DISPOSAL CONSIDERATIONS

- **Product:**
- **Recommendation**
Remove according to local authority recommendations, e.g. convey to a suitable incinerator. Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- **Uncleaned packaging:**
Recommendation:
Disposal according to official regulations.

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14. TRANSPORT INFORMATION

- Land transport ADR/ RID a GGVS/ GGVE
- ADR/ RID: is not a dangerous matter
- GGVS/ GGVE: is not a dangerous matter
- Inland waterway transport (AND/ ADR): is not a dangerous matter
- AND/ ADR: is not a dangerous matter

15. REGULATORY INFORMATION

- **Designation according to EC guidelines:**
The product is not considered as dangerous product according to Directive 67/548/EWG.
- **National regulations:**
- **Information about limitation of use:**
In dealing with chemicals the national laws must be observed.
- **Waterhazard class:**
Generally not hazardous for water..

16. OTHER INFORMATION

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

- **Department issuing data specification sheet :**
Product Safety Department
- **Contact:**
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