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



Trade Name: HUMAGRA LIQUID

Printing date 31/10/2007 Reviewed on 05/08/2003

## 1. IDENTIFICATION OF SUBSTANCE

Product details

• Trade name: HUMAGRA LIQUID

• Article number: 01112

• Application of the substance / the preparation: Intermediate

• Manufacturer/Supplier:

Humintech GmbH Heerdter Landstr. 189/D

D-40549 Düsseldorf/ Germany

<u>www.humintech.com</u>
Tel: +49 211 50 66 57 0
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Fax: +49 211 50 66 57 22

Information: see: Section 16 (Contact)
 Emergency information: see: Manufacturer/Supplier

## 2. COMPOSITION/ DATA ON COMPONENTS

Chemical characterization:
 Potassium salt of humic acids

• Chemical state: Liquid

• CAS No. Designation: 68514-28-3

• Identification number(s):

• EINECS number: 271-030-1

• Dangerous components:

CAS: 1310-58-2 Potassium hydroxide C; R 35 < 2% EINECS: 215-181-3

#### Additional information

For the wording of the listed risk phrases refer to section 16.

## 3. HAZARDS IDENTIFICATION

· Hazard designation:



Xi Irritant

 Information pertaining to particular dangers for man and environment R 36/38 Irritating to eyes and skin

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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 symptomes 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:

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

# • Special hazards caused by the material, its products of combustion or resulting gases: Can be released in case of fire. Carbon monoxide (CO).

## • Protective equipment:

Put on breathing apparatus. Wear full protective suit.

## 6. ACCIDENTIAL RELEASE MEASURES

## Person-related safety precautions:

Ensure adequate ventilation. Avoid causing 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.

- 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:

11 (inflammable solids)

## 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:

1310-58-3 Potassium hydroxide

OEL 2 mg/m<sup>3</sup>

- Personal protective equipment
- General protective and hygienic measures:

Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

• Breathing equipment:

Not necessary if room is well-ventilated.

• Protection of hands:

Protective gloves.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued)

- Material of gloves:

Synthetic gloves

- Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Safety glasses

## 9. PHYSICAL AND CHEMICAL PROPERTIES

• General information:

Form: Dispersion Colour: Dark brown

Odour: Not distinguishable

• pH-value (10 g/l) at 20°C: 9.0 – 10.0 (ISO 8975)

• Change in physical state: above 250°C destroyed to CO<sub>2</sub>, H<sub>2</sub>O and

soot

Melting point/ Melting range:

Boiling point/ Boiling range:

Not determined

Not applicable

• Flash point: 300°C

• **Inflammability:** Product is not inflammable.

• Danger of explosion:

• Ignition temperature:

Decomposition temperature: > 100°C (DIN 53171)
 Density at 20°C: 1.1 g/cm³ (ISO 2811)

Solubility in water at 20°C: approx. 200 g/l
 Solubility in other solvents: ethanol 200 g/l

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## 10. STABILITY AND REACTIVITY

## Thermal decomposition/ Conditions to be avoided:

No decomposition if used according to specifications. Avoid mixing with acidic materials - this ruins product.

## • Dangerous reactions:

No dangerous reactions known.

## • Dangerous products of decomposition:

No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

· Acute toxicity:

LD50/ Oral/ rat: mg/kg LC50/ Inhal/ rat: mg/l

• Primary irritant effect:

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

• on the eye: Irritant effect.

## 12. ECOLOGICAL INFORMATION

· General notes:

Do not allow product to reach underground or surface water or sewage system.

• 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.

## • European waste catalogue

The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

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## 13. DISPOSAL CONSIDERATIONS (continued)

- Uncleaned packagings:
- · Recommendation:

Dsiposal must be made according to official regulations.

## 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 has been classified and labelled in accordance with EC Directives/ Ordinance on Hazardous Materials (GefStoffV)

• Code letter and hazard designation of product:

Xi Irritant

· Risk phrases:

36/38 Irrtating to eyes and skin.

· Safety phrases:

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

medical advice.

37/39 Wear suitable gloves and eye/face protection

This material and its container must be disposed of as hazardous waste.

## 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.

## • Relevant R-phrases

These R-phrases refer to section 2: «Dangerous Components». 35 Causes severe burns.

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## 16. OTHER INFORMATION (continued)

• Department issuing data specification sheet : Product Safety Department

• Contact:

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