



The Chemical Company

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TER Chemicals  
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## Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 02.05.2014

Version: 2.0

Product: **Luwax® AH 3 Powder**

(ID no. 30043697/SDS\_GEN\_EU/EN)

Date of print 08.10.2014

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

### **Luwax® AH 3 Powder**

Chemical name: polyethylene

CAS Number: 9002-88-4

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Raw material for the chemical-technical industry

#### 1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 621 60-44676

E-mail address: [emd-ems-ehs-masterdata@basf.com](mailto:emd-ems-ehs-masterdata@basf.com)

#### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

### SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

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According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

No specific dangers known, if the regulations/notes for storage and handling are considered.

## 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

The product does not require a hazard warning label in accordance with GHS criteria.

According to Directive 67/548/EEC or 1999/45/EC

Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation 1907/2006/EC

The product does not require a hazard warning label in accordance with EC Directives.

## 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

**|** No specific dangers known, if the regulations/notes for storage and handling are considered.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Chemical nature

polyethylene

CAS Number: 9002-88-4

### 3.2. Mixtures

Not applicable

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Remove contaminated clothing.

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If inhaled:

| Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

Areas affected by molten material should be quickly placed under cold running water. Solidified product should not be pulled from the skin. Burns caused by molten material require hospital treatment. Immediate medical attention required.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms: No significant symptoms are expected due to the non-classification of the product.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

| Treatment: Symptomatic treatment (decontamination, vital functions).

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

| dry powder, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

#### **5.2. Special hazards arising from the substance or mixture**

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

#### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## SECTION 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, section 8.

### 6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### 6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Avoid raising dust. Dispose of absorbed material in accordance with regulations.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Provide exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. The product is capable of dust explosion. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Protect from temperatures below: -20 °C

Protect from temperatures above: 70 °C

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

9002-88-4: polyethylene

## 8.2. Exposure controls

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### Hand protection:

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):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### General safety and hygiene measures

Wearing of closed work clothing is recommended. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

|                             |  |             |
|-----------------------------|--|-------------|
| Form:                       | powder, melt   |             |
| Colour:                     | white  |             |
| Odour:                      | product specific                                       |             |
| Odour threshold:            | not determined   |             |
| pH value:                   | not applicable   |             |
| melting range:              | 110 - 118 °C   |             |
| solidification temperature: | 102 - 106 °C   |             |
| Boiling point:              | not applicable   |             |
| Flash point:                | > 100 °C   | (DIN 51758) |
| Evaporation rate:           |  |             |
| Flammability:               | The product is a non-volatile solid.<br>not determined |             |

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|   |  |             |
|---|--|-------------|
| Lower explosion limit:                              | For solids not relevant for classification and labelling.                          |             |
| Upper explosion limit:                              | For solids not relevant for classification and labelling.                          |             |
| Ignition temperature:                               | > 200 °C   | (DIN 51794) |
| Vapour pressure:                                    | not applicable   |             |
| Density:  | 0.94 - 0.955 g/cm <sup>3</sup><br>(23 °C)  |             |
| Relative density:                                   | No data available.   |             |
| Relative vapour density (air):                      | The product is a non-volatile solid.   |             |
| Solubility in water:                                | insoluble  |             |
| Solubility (qualitative) solvent(s):                | non-polar solvents<br>soluble  |             |
| Partitioning coefficient n-octanol/water (log Kow): | not determined   |             |
| Self ignition:                                      | Based on its structural properties the product is not classified as self-igniting. |             |
| Thermal decomposition:                              | not determined   |             |
| Viscosity, dynamic:                                 | not applicable, the product is a solid   |             |
| Viscosity, kinematic:                               | 135 - 240 mm <sup>2</sup> /s<br>(120 °C)   | (DIN 51562) |
| Explosion hazard:                                   | not explosive  |             |
| Fire promoting properties:                          | Based on its structural properties the product is not classified as oxidizing.     |             |

## 9.2. Other information

|   |                                  |
|---|----------------------------------|
| Bulk density:   | approx. 450 kg/m <sup>3</sup>    |
| Hygroscopy:   | The product has not been tested. |
| Grain size distribution:  | No data available.               |
| Other Information:  |                                  |
| If necessary, information on other physical and chemical parameters is indicated in this section. |                                  |

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

| No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

### 10.2. Chemical stability

| The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

| The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

### 10.4. Conditions to avoid

See MSDS section 7 - Handling and storage. Avoid dust formation. Avoid deposition of dust.

### 10.5. Incompatible materials

Substances to avoid:

| None known during use and storage if used according to instructions.

### 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Experimental/calculated data:  
LD50 rat (oral): > 2,000 mg/kg

| LC50 rat (by inhalation):  
not determined

| LD50 rat (dermal):  
not determined

#### Irritation

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (BASF-Test)

Serious eye damage/irritation rabbit: non-irritant (BASF-Test)

#### Respiratory/Skin sensitization

*Information on: polyethylene*  
*Assessment of sensitization:*

| *Skin sensitizing effects were not observed in animal studies.*

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#### Germ cell mutagenicity

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Assessment of mutagenicity:

| No data available concerning mutagenic effects.

Carcinogenicity*Information on: polyethylene**Assessment of carcinogenicity:*| IARC Group 3 (not classifiable as to human carcinogenicity).  
-----Reproductive toxicity

Assessment of reproduction toxicity:

| No data available.

Developmental toxicity

Assessment of teratogenicity:

| No data available.

Specific target organ toxicity (single exposure)

| Remarks: No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

| No data available.

Aspiration hazard

| not applicable

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

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**SECTION 12: Ecological Information****12.1. Toxicity**

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Leuciscus idus*

Aquatic invertebrates:

| LC50 (48 h), daphnia

| not determined



**Aquatic plants:**

EC50 (72 h), algae  
not determined

Microorganisms/Effect on activated sludge:  
> 1,000 mg/l (DEV-L2)

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

**Chronic toxicity to fish:**

No data available.

**Chronic toxicity to aquatic invertebrates:**

No data available.

**Assessment of terrestrial toxicity:**

No data available concerning terrestrial toxicity.

**12.2. Persistence and degradability****Assessment biodegradation and elimination (H<sub>2</sub>O):**

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

**12.3. Bioaccumulative potential****Assessment bioaccumulation potential:**

The product has not been tested.

**Bioaccumulation potential:**

The product will not be readily bioavailable due to its consistency and insolubility in water.

**12.4. Mobility in soil****Assessment transport between environmental compartments:**

The substance will not evaporate into the atmosphere from the water surface.

**12.5. Results of PBT and vPvB assessment**

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

**12.6. Other adverse effects**

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

**12.7. Additional information**

Add. remarks environm. fate & pathway:

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Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

## SECTION 14: Transport Information

### Land transport

ADR

|                              |  |
|------------------------------|--|
|                              | Not classified as a dangerous good under transport regulations |
| UN number:                   | Not applicable   |
| UN proper shipping name:     | Not applicable   |
| Transport hazard class(es):  | Not applicable   |
| Packing group:               | Not applicable   |
| Environmental hazards:       | Not applicable   |
| Special precautions for user | None known   |

RID

|                              |  |
|------------------------------|--|
|                              | Not classified as a dangerous good under transport regulations |
| UN number:                   | Not applicable   |
| UN proper shipping name:     | Not applicable   |
| Transport hazard class(es):  | Not applicable   |
| Packing group:               | Not applicable   |
| Environmental hazards:       | Not applicable   |
| Special precautions for user | None known   |

### Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

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|                                      |                |
|--------------------------------------|----------------|
| UN number:                           | Not applicable |
| UN proper shipping name:             | Not applicable |
| Transport hazard class(es):          | Not applicable |
| Packing group:                       | Not applicable |
| Environmental hazards:               | Not applicable |
| Special precautions for user         | None known     |
| Transport in inland waterway vessel: | Not evaluated  |

**Sea transport****IMDG**

|                              |  |
|------------------------------|--|
|                              | Not classified as a dangerous good under transport regulations |
| UN number:                   | Not applicable   |
| UN proper shipping name:     | Not applicable   |
| Transport hazard class(es):  | Not applicable   |
| Packing group:               | Not applicable   |
| Environmental hazards:       | Not applicable   |
| Special precautions for user | None known   |

**Air transport****IATA/ICAO**

|                              |  |
|------------------------------|--|
|                              | Not classified as a dangerous good under transport regulations |
| UN number:                   | Not applicable   |
| UN proper shipping name:     | Not applicable   |
| Transport hazard class(es):  | Not applicable   |
| Packing group:               | Not applicable   |
| Environmental hazards:       | Not applicable   |
| Special precautions for user | None known   |

**14.1. UN number**

See corresponding entries for "UN number" for the respective regulations in the tables above.

**14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

**14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

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#### 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

|                     |               |
|---------------------|---------------|
| Regulation:         | Not evaluated |
| Shipment approved:  | Not evaluated |
| Pollution name:     | Not evaluated |
| Pollution category: | Not evaluated |
| Ship Type:          | Not evaluated |

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### SECTION 15: Regulatory Information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### 15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

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### SECTION 16: Other Information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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