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# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

#### Product name

#### **AmoSulfan**

#### Name

ammonium sulphate (CAS: 7783-20-2, EC: 231-984-1)

**REACH Registration number** 

01-2119455044-46

Product code

[AmoSulfan EZ.var I\_EZ.var II, AmoSulfan EP.var I\_EP.var II]

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

#### Relevant identified uses

Ammonium sulfate + 24 % S.

MINERAL SIMPLE SOLID NITROGENOUS FERTILISER WITH SECONDARY NUTRIENT: N (S) 20 (24).

#### Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

## Manufacturer

ELIXIR ZORKA-MINERALNA ĐUBRIVA DOO ŠABAC in cooperation with ELIXIR PRAHOVO DOO PRAHOVO

Address: Hajduk Veljkova 1, 15000 Šabac, Serbia

Phone: +381 15 352 707 Fax: +381 15 352 715

#### **Only Representative**

BENS consulting d.o.o.

Address: Bakovniška ulica 7, 1241 Kamnik, Slovenia

Tel.: +386 41 979 800 e-mail: info@kemikalije.com

Point of contact for safety info: Simona Miklavčič

1.4. Emergency telephone number

## **Emergency**

112

#### Supplier

+381 15 352 707

#### **SECTION 2. HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

According to the regulation, the product is not classified as hazardous.

2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

Pictograms not applicable according to Regulation 1272/2008.



chemius.net/ZFFdb

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#### 2.2.2. Contains:

-

#### 2.2.3. Special provisions

Special hazards are not known or expected.

#### 2.3. Other hazards

No information.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

| Name                 | CAS<br>EC<br>Index          | %         | Classification according to Regulation (EC)<br>No 1272/2008 (CLP) | Specific Conc.<br>Limits | REACH Registration No. |
|----------------------|-----------------------------|-----------|---|--------------------------|------------------------|
| ammonium<br>sulphate | 7783-20-2<br>231-984-1<br>- | 90,0-98,0 | not classified  |                          | 01-2119455044-46       |
| water (H2O)          | 7732-18-5<br>231-791-2<br>- | 2,0-10,0  | not classified  |                          | -                      |

#### 3.2. Mixtures

For substances see 3.1.

#### **SECTION 4. FIRST AID MEASURES**

### 4.1. Description of first aid measures

### General notes

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If victim is not breathing give artificial respiration. Obtain professional medical help!

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms persist seek medical attention.

### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

## Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Consult a physician. Show the physician the safety data sheet or label.

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

### Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### Skin contact

Prolonged and repeated exposure may cause redness, itching and cracking of the skin in sensitive people.

#### Eye contact

Dust irritates the eyes (by mechanical means).

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#### Ingestion

May cause nausea/vomiting and diarrhea.

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

Symptoms of poisoning may appear several hours later. Keep under medical supervision for at least 48 hours.

#### **SECTION 5. FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

## Suitable extinguishing media

Water spray.

#### Unsuitable extinguishing media

Do not use chemical agents (CCl<sub>4</sub>, CO<sub>2</sub>, foam, powder) sand or water vapor.

5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of heating harmful vapours/gases can be generated.

Ammonia.

Sulphuric oxides (SO<sub>X</sub>).

Nitrogen oxides (NO<sub>X</sub>).

#### 5.3. Advice for firefighters

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

## Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

### Protective equipment

Use personal protective equipment (Section 8).

#### **Emergency procedures**

Ensure adequate ventilation. Avoid dust generation. Avoid breathing dust.

## 6.1.2. For emergency responders

Use personal protective equipment.

## 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

### 6.3.1. For containment

6.3.2. For cleaning up

Take up mechanically. Collect in a suitable container and dispose of according to regulations. Dispose in accordance with applicable regulations (see Section 13).

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#### 6.3.3. Other information

-

#### 6.4. Reference to other sections

See also Sections 8 and 13.

#### **SECTION 7. HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

## Measures to prevent fire

Ensure adequate ventilation.

#### Measures to prevent aerosol and dust generation

Prevent dusting.

#### Measures to protect the environment

-

#### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe dust.

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

#### 7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from moisture. Keep away from food, drink and animal feeding stuffs.

#### 7.2.2. Packaging materials

PE, PP/PE

#### 7.2.3. Requirements for storage rooms and vessels

-

### 7.2.4. Storage class

•

## 7.2.5. Further information on storage conditions

-

#### 7.3. Specific end use(s)

#### Recommendations

-

#### Industrial sector specific solutions

-

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No information.

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

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#### 8.1.3. DNEL/DMEL values

#### For components

| Name                          | Туре     | Exposure route | Exposure frequency           | Value                    | Remark |
|-------------------------------|----------|----------------|------------------------------|--------------------------|--------|
| ammonium sulphate (7783-20-2) | Worker   | dermal         | long term (systemic effects) | 42,667 mg/kg             |        |
| ammonium sulphate (7783-20-2) | Worker   | inhalation     | long term (systemic effects) | 11,167 mg/m <sup>3</sup> |        |
| ammonium sulphate (7783-20-2) | Consumer | dermal         | long term (systemic effects) | 12,8 mg/kg               |        |
| ammonium sulphate (7783-20-2) | Consumer | inhalation     | long term (systemic effects) | 1,667 mg/m <sup>3</sup>  |        |
| ammonium sulphate (7783-20-2) | Consumer | oral           | long term (systemic effects) | 6,4 mg/kg                |        |

#### 8.1.4. PNEC values

#### For components

| Name                          | Exposure route              | Value       | Remark |
|-------------------------------|-----------------------------|-------------|--------|
| ammonium sulphate (7783-20-2) | fresh water                 | 0,312 mg/L  |        |
| ammonium sulphate (7783-20-2) | marine water                | 0,0312 mg/L |        |
| ammonium sulphate (7783-20-2) | water, intermittent release | 0,53 mg/L   |        |
| ammonium sulphate (7783-20-2) | fresh water sediment        | 0,063 mg/kg |        |
| ammonium sulphate (7783-20-2) | soil                        | 62,6 mg/kg  |        |
| ammonium sulphate (7783-20-2) | water treatment plant       | 16,18 mg/kg |        |

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe dust.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

## 8.2.2. Personal protective equipment

## Eye and face protection

Tight fitting protective goggles (EN 166).

#### **Hand protection**

Before use protect hands with suitable protective cream. Protective gloves (EN 374).

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

## Respiratory protection

If concentration of airborne dust is elevated wear mask (EN 136/140) with filter P2 (EN 143).

#### Thermal hazards

#### 8.2.3. Environmental exposure controls

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** 

## 9.1. Information on basic physical and chemical properties

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| - | Physical state: | solid             |
|---|-----------------|-------------------|
| - | Colour:         | white, light gray |
| - | Odour:          | mild              |

## Important health, safety and environmental information

| - | рН                                  | 3 – 3,6   |
|---|-------------------------------------|---|
| - | Melting point/freezing point        | 235 °C  |
| - | Initial boiling point/boiling range | No information.   |
| - | Flash point                         | No information.   |
| - | Evaporation rate                    | No information.   |
| - | Flammability (solid, gas)           | No information.   |
| - | Explosion limits (vol%)             | No information.   |
| - | Vapour pressure                     | No information.   |
| - | Vapour density                      | No information.   |
| - | Density                             | <b>Density</b> : 0,8 - 0,95 g/cm <sup>3</sup>           |
| - | Solubility                          | <b>Water</b> : 760 g/l at 20 °C                         |
| - | Partition coefficient               | No information.   |
| - | Auto-ignition temperature           | No information.   |
| - | Decomposition temperature           | No information.   |
| - | Viscosity                           | No information.   |
| - | Explosive properties                | Product is not explosive. Product is not self igniting. |
| - | Oxidising properties                | Not oxidising.  |
|   |                                     |   |

### 9.2. Other information

| - Remarks: Hygroscopic. |  |
|-------------------------|--|
|-------------------------|--|

## **SECTION 10. STABILITY AND REACTIVITY**

### 10.1. Reactivity

Stable under normal conditions.

## 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

## 10.3. Possibility of hazardous reactions

Reacts with strong alkalis releasing ammonia.

## 10.4. Conditions to avoid

Avoid high temperatures. Avoid contact with incompatible materials.

## 10.5. Incompatible materials

Strong bases.

Strong acids.

Copper.

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#### 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

Ammonia; Sulphuric oxides. Nitrogen oxides.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

## (a) Acute toxicity

| Name  | Exposure route | Туре             | Species | Time   | Value                 | Method   | Remark       |  |  |
|---|----------------|------------------|---------|--------|-----------------------|----------|--------------|--|--|
| ammonium sulphate (7783-20-2)   | oral           | LD <sub>50</sub> | rat     | 7 days | 4250 mg/kg            | OECD 401 |              |  |  |
| ammonium sulphate (7783-20-2)   | dermal         | LD <sub>50</sub> | rat     |        | 2000 mg/kg            | OECD 434 |              |  |  |
| ammonium sulphate (7783-20-2)   | inhalation     | LC <sub>50</sub> | rat     | 4 h    | 3,6 mg/m <sup>3</sup> | OECD 433 | dust/aerosol |  |  |
| Additional information: The product is not classified for acute toxicity. |                |                  |         |        |                       |          |              |  |  |

## (b) Skin corrosion/irritation

| Name  | Species             | Time       | Result           | Method | Remark |
|---|---------------------|------------|------------------|--------|--------|
| ammonium sulphate (7783-20-2)                           | rabbit              | 24 h       | Mild irritating. |        |        |
| Additional information: The product is not classified a | as irritating to sk | in and eye | es.              |        |        |

## (c) Serious eye damage/irritation

| Name                          | Species | Time | Result           | Method | Remark       |
|-------------------------------|---------|------|------------------|--------|--------------|
| ammonium sulphate (7783-20-2) | rabbit  |      | Mild irritating. | BASF   | 24, 48, 72 h |

## (d) Respiratory or skin sensitisation

| Name  | Exposure route | Species    | Time | Result           | Method           | Remark           |  |  |
|---|----------------|------------|------|------------------|------------------|------------------|--|--|
| ammonium sulphate (7783-20-2)   | dermal         | guinea pig |      | Non sensitising. | EPA 540/9-82-025 | 24-48 h; 76.5 mg |  |  |
| Additional information: The product is not classified as sensitising. |                |            |      |                  |                  |                  |  |  |

## (e) (Germ cell) mutagenicity

| Name                          | Туре                     | Species         | Time | Result   | Method      | Remark                          |
|-------------------------------|--------------------------|-----------------|------|--|-------------|---------------------------------|
| ammonium sulphate (7783-20-2) | in-vitro<br>mutagenicity | rat             |      | Negative with metabolic activation, negative without metabolic activation. | OECD<br>471 | Salmonella<br>typhimurium       |
| ammonium sulphate (7783-20-2) | in-vivo<br>mutagenicity  | mouse<br>(male) |      | Negative with metabolic activation, negative without metabolic activation. | OECD<br>471 | 62,5, 125, 250, 500<br>mg/kg bw |

## (f) Carcinogenicity

No information.

## (g) Reproductive toxicity

No information.

## Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

#### (h) STOT-single exposure

Additional information: STOT SE (single exposure): Not classified.

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### (i) STOT-repeated exposure

| 187<br>g/m³ air                                 | OECD<br>422 | 6h/day   |
|---|-------------|--|
| 66 mg/kg Weight increase of kidneys and spleen. | OECD<br>453 | 24 hours<br>per day                              |
| 4 mg/kg Weight increase of kidneys and spleen.  | OECD<br>453 | 24 hours<br>per day                              |
| 34 m  |             | Meight increase of kidneys and spleen.  OECD 453 |

## (j) Aspiration hazard

Additional information: Aspiration hazard: Not classified.

## **SECTION 12. ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

#### For components

| Substance (CAS Nr.)           | Type             | Value      | Exposure time | Species   | Organism               | Method   | Remark |
|-------------------------------|------------------|------------|---------------|-----------|------------------------|----------|--------|
| ammonium sulphate (7783-20-2) | LC <sub>50</sub> | 53 mg/L    | 96 h          | fish      | Oncorhynchus mykiss    | OECD 203 |        |
|                               | EC <sub>50</sub> | 121,7 mg/L | 48 h          | crustacea | Ceriodaphnia acanthina | OECD 202 |        |
|                               | EC <sub>20</sub> | 1050 mg/L  | 30 min        | bacteria  | Activated sludge       | OECD 209 |        |
|                               | EC <sub>50</sub> | 1618 mg/L  | 3 h           | bacteria  | Activated sludge       | OECD 209 |        |

## 12.1.2. Chronic (long-term) toxicity

## For components

| Substance (CAS Nr.)           | Туре             | Value     | Exposure time | Species   | Organism            | Method    | Remark |
|-------------------------------|------------------|-----------|---------------|-----------|---------------------|-----------|--------|
| ammonium sulphate (7783-20-2) | EC50             | 1605 mg/l | 5 days        | algae     | Chlorella vulgaris  | OECD 201  |        |
|                               | EC <sub>10</sub> | 5,29 mg/l | 30 days       | fish      | Lepomis macrochirus | BASF test |        |
|                               | EC <sub>10</sub> | 3,12 mg/l | 10 weeks      | crustacea | Hyalella azteca     | BASF test |        |

#### 12.2. Persistence and degradability

## 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

### 12.2.2. Biodegradation

No information.

## Additional information

Nitrogen is biodegradable. Biodegradable products that follow the natural cycle of nitrification/denitrification of nitrogen which is the basis for plant nutrition.

## 12.3. Bioaccumulative potential

## 12.3.1. Partition coefficient

No information.

## 12.3.2. Bioconcentration factor (BCF)

No information.

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#### Additional information

No bioaccumulation expected.

#### 12.4. Mobility in soil

#### 12.4.1. Known or predicted distribution to environmental compartments

No information.

#### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

No information.

#### Additional information

Soluble in water. The  $NH_{\Delta}^+$  ion is absorbed by soil particles.

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

No evaluation.

#### 12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation, endocrine disruption, global warming) are expected.

#### 12.7. Additional information

#### For product

Do not allow to reach ground water, water courses or sewage system.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

## 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

#### Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

#### **Packaging**

Deliver completely emptied containers to approved waste disposal authorities.

#### Waste codes / waste designations according to LoW

15 01 02 - plastic packaging

15 01 03 - wooden packaging

## 13.1.2. Waste treatment-relevant information

Disposal in accordance with the Rules on the management of waste.

#### 13.1.3. Sewage disposal-relevant information

-

## 13.1.4. Other disposal recommendations

**SECTION 14. TRANSPORT INFORMATION** 

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

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14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

#### SECTION 15. REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
  - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

# 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## **SECTION 16. OTHER INFORMATION**

#### Indication of changes

#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

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EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW - see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

 $LC_{50}$  - Lethal Concentration to 50 % of a test population

LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

**UN - United Nations** 

vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

List of relevant H phrases

-

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- ☑ Provided correct labelling of the product
- ☑ Provided correct classification of the product
- ☑ Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

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