



EPSO Top®

Version 2.0

Revision Date: 2009-12-03

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

- **Trade name** EPSO Top®
- **Use** Fertiliser
- **Company** K+S KALI GmbH
Bertha-von-Suttner-Str. 7
34131 Kassel
Germany
Telephone: +49-(0)561-9301-0
Telefax: +49-(0)561-9301-1753
- **Responsible Department** Marketing
Telephone: +49-(0)561-9301-2356
Telefax: +49-(0)561-9301-1744
info@kali-gmbh.com
- **Emergency telephone** Giftinformationszentrale Nord, Göttingen, Germany
Telephone: +49 (0)551 19240

2. HAZARDS IDENTIFICATION

The product does not need to be labelled in accordance with EC directives or respective national laws.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Chemical Name	CAS-No.	EINECS-No.	Classification	% w/w
Magnesium Sulphate Heptahydrate	10034-99-8	231-298-2		> 99

4. FIRST AID MEASURES

- **General advice** If symptoms persist, seek medical advice.
- **Inhalation** If breathed in, move person into fresh air.
- **Skin contact** Rinse with water.
- **Eye contact** Immediately flush eye(s) with plenty of water.
- **Ingestion** Clean mouth with water and drink afterwards plenty of water.

5. FIRE-FIGHTING MEASURES

- **Suitable extinguishing media** The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- **Extinguishing media which shall not be used for safety reasons** none
- **Specific hazards during fire fighting** Heating or fire can release toxic gas. Sulphur oxides



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- **Special protective equipment for fire-fighters** Respiratory protection
- **Further information** Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions** Avoid breathing dust.
- **Environmental precautions** Do not let product enter drains.
- **Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling

- **Advice on safe handling** Avoid creating dust. Use only clean and dry utensils. Avoid inhalation, ingestion and contact with skin and eyes.
- **Advice on protection against fire and explosion** The product is not flammable. No special precautions required.

Storage

- **Requirements for storage areas and containers** Keep in a dry place.
- **Advice on common storage** No special restrictions on storage with other products.
- **German storage class** 13 Non Combustible Solids
- **Storage stability** Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

- none

Personal protective equipment

- **Respiratory protection** Effective dust mask.
- **Hand protection** not required under normal use
- **Eye protection** Safety glasses
- **Skin and body protection** not required
- **Hygiene measures** When using do not eat or drink. Wash hands before breaks and at the end of workday.
- **Protective measures** none

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- **Form** crystalline



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- **Toxicity to algae** EC50 2700 mg MgSO₄/l (72 h) Desmodosmus subspicatus (green algae) DIN 38412 REF. 4
- **Toxicity to bacteria** EC50 84000 mg MgSO₄/l (30 min) Bacteria DIN 38412 REF. 4
- **Biodegradability** not applicable
- **Physico-chemical removability** not applicable
- **Adsorbed organic bound halogens (AOX)** not applicable

13. DISPOSAL CONSIDERATIONS

- **Product** Test for use in agriculture.
- **Packaging** Completely emptied packagings can be given for recycling.
- **Contaminated packaging** Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
- **Waste key for the unused product** 02 01 09: Wastes of chemicals for the agriculture excepted of those, which are listed under 02 01 08

14. TRANSPORT INFORMATION

Further Information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

- The product does not need to be labelled in accordance with EC directives or respective national laws.

National legislation

- **Water contaminating class (Germany)** WGK 1: slightly water endangering
- **Other regulations** Observe national and local legal requirements.

16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.



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Sources of key data used to compile the Safety Data Sheet:

- **REF. 4** INNOLAB GmbH & Co. KG, Niedervellmarsche Str. 30, 34233 Fulda, Project No. 04 926035, 1994