

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

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

· **1.1 Product identifier**

· Trade name: **Lebosol-MagSOFT SC**

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

No further relevant information available.

· Application of the substance / the mixture Fertiliser

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

LEBOSOL Dünger GmbH
Wiesengasse 28
D-67471 Elmstein

Tel.: 06328-98494-0, Fax : 06328-98494-90, E-mail: info@lebosol.de

· **Informing department:**

Herr Rene Verdaasdonk
Tel.: 06328-98494-31

· **1.4 Emergency telephone number:**

Poison Control Center Mainz - 24 h - +49(0)6131-19240
National Poisons Information Service (Birmingham Unit)
+44 121 507 4123

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

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

Skin Irrit. 2 H315 Causes skin irritation.

· **2.2 Label elements**

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS07

· Signal word Warning

· Hazard statements

H315 Causes skin irritation.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

· **2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· Description: Aqueous suspension of magnesium hydroxide and elemental sulphur

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· Dangerous components:

CAS: 7704-34-9 EINECS: 231-722-6 Index number: 016-094-00-1 Reg.nr.: 01-2119487295-27-xxxx	sulfur ⚠ Skin Irrit. 2, H315	10-25%
CAS: 107-21-1 EINECS: 203-473-3 Index number: 603-027-00-1 Reg.nr.: 01-2119456816-28-xxxx	ethane-1,2-diol ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302	2.5-10%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Information for doctor** No particular measures are known - treat according to symptoms.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
The product is not flammable
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Avoid contact with eyes and skin.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
Clean the accident area carefully.
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

No special precautions necessary if used correctly.

The usual precautionary measures for handling chemicals must be observed.

· **Information about protection against explosions and fires:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage**· **Requirements to be met by storerooms and containers:** Store only in the original container.· **Information about storage in one common storage facility:** Store away from foodstuffs.**Further information about storage conditions:**

Do not store the product at temperatures below 5 °C

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Protect from frost.

· **Storage class 12**· **7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection**· **Additional information about design of technical systems:** No further data; see item 7.**8.1 Control parameters**· **Components with limit values that require monitoring at the workplace:****CAS: 107-21-1 ethane-1,2-diol (2.5-10%)**

WEL (Great Britain)

Short-term value: 104** mg/m³, 40** ppmLong-term value: 10* 52** mg/m³, 20** ppm

Sk *particulate **vapour

IOELV (European Union)

Short-term value: 104 mg/m³, 40 ppmLong-term value: 52 mg/m³, 20 ppm

Skin

DNELs**CAS: 107-21-1 ethane-1,2-diol**

Dermal

DNEL Langzeit /Long-term

105 mg/m³ (Human)

Inhalative

DNEL Langzeit Verbraucher / Long-term consumer

7 mg/m³ (Human) (Verbraucher)

DNEL - Arbeiter / worker

35 mg/m³ (Human)· **Additional information:** The lists that were valid during the compilation were used as basis.**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Keep away from foodstuffs, beverages and food.

· **Breathing equipment:** Only during spraying without adequate removal by suction.· **Recommended filter device for short term use:**

Filter AX

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· **Protection of hands:**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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

· **As protection from splashes gloves made of the following materials are suitable: PVC gloves**· **Not suitable are gloves made of the following materials:**

Leather gloves

Strong gloves

· **Eye protection:**

Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Fluid

Colour: Yellow

· Odour: Characteristic

· pH-value at 20 °C: 7.5

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: 100 °C

· Flash point: Not applicable

· Self-inflammability: Product is not selfigniting.

· Danger of explosion: Product is not explosive.

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C 1.45 g/cm³· **Solubility in / Miscibility with**

Water: Dispersible

· **Viscosity:**

dynamic: Not determined.

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· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** none, if used as directed
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 - acids
 - strong oxidizing agents
 - strong bases
 - Amines
- **10.6 Hazardous decomposition products:** none, if stored and handled correctly.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

CAS: 107-21-1 ethane-1,2-diol

Oral	LDLo	ca. 1600 mg/kg (Human)
	LD50	4000 mg/kg (rat)
Dermal	LD50	> 3500 mg/kg (Mouse)
		9530 mg/kg (rbt)
Inhalative	LC50	>2.5 (6h) mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation** irritative effect possible
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 107-21-1 ethane-1,2-diol

NOEC	15380 (7d) mg/l (<i>Pimephales promelas</i>) 8590 (7d) mg/l (<i>Ceriodaphnia dubia</i>)
Bakterientoxizität / Bacteria toxicity	> 1995 mg/l (<i>Belebtschlamm</i> bakterien) (EC20 (0,5 h)) 10000 mg/l (<i>Pseudomonas putida</i>) (EC50 (16h))
Algentoxizität / Algae toxicity	6500 - 13000 mg/l (<i>Selenastrum capricornutum</i>) (EC50 (96h))

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Daphnientoxizität / Daphnia toxicity	6500 - 7500 mg/l (Pseudokirchneriella subcapitata) (EC50 (96h)) > 10000 mg/l (daphnia) (EC50 (24h)) > 100 mg/l (Daphnia magna) (EC50 (48h))
Fischttoxizität / Fish toxicity	72860 mg/l (Pimephales promelas) (LC50 (96h)) > 18500 mg/l (Onchorhynchus mykiss) (LC50 (96h)) > 10000 mg/l (Goldorfe (Leuciscus idus)) (LC50 (48h))

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:** Not determined
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** For disposal, local regulations issued by the authorities must be observed.

· European waste catalogue	
02 00 00	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01 00	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 08	agrochemical waste containing dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 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.

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· UN "Model Regulation": Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Changes made since last issue dated 30.11.2015 at the following points: *

- **Relevant phrases**
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- **Department issuing data specification sheet:**
IGG-AD Ingenieurbüro für Gefahrstoff- und Gefahrgutberatung
Bismarckstraße 10
D-68623 Lampertheim
Fax: 0049-(0)6206-58422 <http://www.igg-ad.de> info@igg-ad.de
- **Contact:** Dr. U. Prinz (u.prinz@igg-ad.de)
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
- *** Data compared to the previous version altered.**

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