



## Nutribor

Version 2  
Revision Date 08/24/2005

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Product information

Trade name : Nutribor

Use of the Substance/Preparation : fertiliser

Company : COMPO GmbH & Co. KG  
Gildenstraße 38  
D-48157 Münster

Telephone : +49-0251/3277-0  
Telefax : +49-0251/326225

Emergency telephone number : Central Safety & Environment  
Telephone: +49-251-3277-0

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

Mixture of nutrient salts based on various inorganic salts.

#### Hazardous components

Chemical Name	CAS-No.	EINECS-No.	Index-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Manganese sulfate	7785-87-7	232-089-9		Xn, N	R48/20/2 2 R51/53	>= 2,50 - <= 10,00

For the full text of the R phrases mentioned in this Section, see Section 16.

### 3. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
· Classification system: The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data).

### 4. FIRST AID MEASURES

General advice : Take off immediately all contaminated clothing.  
Wash contaminated clothing before re-use.

Inhalation : Fresh air.



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- If symptoms persist, seek medical advice.
- Skin contact : Wash off with soap and plenty of water.  
After contact with skin, wash immediately with plenty of water.  
Consult a doctor if skin irritation persists.
- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes  
and consult a physician.  
If symptoms persist, seek medical advice.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Seek medical attention.

### 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.
- Specific hazards during fire fighting : Evolution of toxic gases/vapours.
- Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This  
must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must  
be disposed of in accordance with local regulations.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid dust formation.  
Keep away from sources of ignition. - No smoking.
- Environmental precautions : Do not empty into drains.  
Product should not reach open waters.
- Methods for cleaning up : Ensure adequate ventilation.  
Use mechanical handling equipment.  
Sweep up or vacuum up spillage and collect in suitable  
container for disposal.  
To clean the floor and all objects contaminated by this material,  
use plenty of water.
- Additional advice : In case in involuntary exposition of the product contact  
producer or supplier.



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### 7. HANDLING AND STORAGE

#### Handling

- Advice on safe handling : Avoid dust formation.  
Keep away from sources of ignition - No smoking.
- Advice on protection against fire and explosion : Dust can form an explosive mixture with air.  
Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.

#### Storage

- Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
- Further information on storage conditions : Protect from atmospheric humidity.  
Protect against water.
- Storage with other substances : Not relevant
- German storage class : 13

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Manganese sulfate	7785-87-7	0,5 mg/m <sup>3</sup>		

#### Engineering measures

Ensure thorough ventilation of stores and work areas.  
Take precautionary measures against static discharges.

#### Personal protective equipment

- Respiratory protection : Not necessary if room is well-ventilated.  
In case of insufficient ventilation wear suitable respiratory equipment.  
Short term filtering device: filter P2
- Hand protection : For prolonged or repeated contact use protective gloves.  
Observe skin protection measures like preventive skin protection, soil-related careful cleaning and application of creamy skin-care agents.  
The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary 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.



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- Eye protection : Wear suitable gloves and eye/face protection.
- Skin and body protection : Wear suitable protective clothing.
- Hygiene measures : Keep away from food, drink and animal feedingstuffs.  
Take off immediately all contaminated clothing.  
Wash hands before breaks and at the end of workday.
- Protective measures : Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

- Form : fine and compact powder
- Colour : product specific
- Odour : characteristic

#### Safety data

- Flash point : Note: not applicable
- Autoignition temperature : Note: not self-igniting
- Explosive properties : not explosive, however formation of explosive air/dust mixtures is possible.
- Water solubility : partly soluble

### 10. STABILITY AND REACTIVITY

- Materials to avoid : water  
Avoid moisture.
- Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
carbon dioxide (CO<sub>2</sub>)  
nitrogen oxides  
sulfur oxides
- Thermal decomposition : No decomposition if stored and applied as directed.
- Hazardous reactions : No hazardous reactions known.



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### 11. TOXICOLOGICAL INFORMATION

- Skin irritation : Remarks: No irritation, but during longer, repeated mechanical effects it can become red and easy red.
- Sensitization : Remarks: None known.

### 12. ECOLOGICAL INFORMATION

- Additional ecological information : Weakly water polluting. (VwVws (Germany) of 17.5.1999, appendix 4). Undiluted product or large quantities of it may not arrive in the groundwater, surface waters, or drains. Instructions for use of the manufacturer/supplier is to consider.

### 13. DISPOSAL CONSIDERATIONS

- Product : It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. fertiliser  
Test for use in agriculture.
- Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.  
Packs that cannot be cleaned should be disposed of in the same manner as the contents.  
Observe all local regulations.
- Waste key for the unused product : 02 01 08: Wastes of chemicals for the agriculture, which dangerous materials contain.

### 14. TRANSPORT INFORMATION

#### Further Information

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

### 15. REGULATORY INFORMATION

#### Labelling according to EC Directives

Handle in accordance with good industrial hygiene and safety practice.

- R-phrase(s) : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic



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environment.

S-phrase(s) : S61

Avoid release to the environment. Refer to special instructions/safety data sheets.

### National legislation

Water contaminating class : WGK 1 slightly water endangering (Germany)

## 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.

### Text of R phrases mentioned in Section 2:

R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.