

Material Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: PentoMag 2000

Revision date: 12.08.2013

Version: 4.0/en

Print date: 12.08.2013

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

1.1 Product identifier

Commercial Product Name **PentoMag 2000**

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

Relevant identified uses Combustion optimisation in fuel oil fired power plants.

1.3 Details of the supplier of the safety data sheet

Company designation PENTOL GmbH
Degussaweg 1
79639 Grenzach-Wyhlen / Germany
Telephone: +49 7624 300-0
FAX: +49 7624 300-190

Contact person E-Mail (competent person): sds@pentol.net

1.4 Emergency telephone number

Emergency telephone number + 49 761 19240
Vergiftungs-Informationen-Zentrale am Universitätsklinikum Freiburg

SECTION 2: Hazards identification

Classification according to Directive Not a dangerous mixture according to the regulation of the European Union.
67/548/EEC / 1999/45/EEC

SECTION 3: Composition/information on ingredients

Chemical characterization Mixture of magnesia compounds in organic carrier substance

Other data This mixture does not contain any substances which either present a health or environmental hazard according to directive 67/548/EEC or have an occupational exposure limit assigned.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Move victim out of danger zone.

If inhaled Provide fresh air.
Consult a physician in case of symptoms.

In case of skin contact Wash with plenty of water.
Remove contaminated clothing.

In case of eye contact Rinse out with plenty of water.
In case of eye irritation consult an ophthalmologist.

If swallowed Rinse mouth immediately and drink plenty of water.
Get medical advice/attention if you feel unwell.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not
be used for safety reasons High power water jet.

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5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighting

Wear suitable chemical protection clothing and self-contained breathing apparatus.

Additional information on firefighting

For the protection of persons and for cooling containers in the hazardous area use water jet.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin and eyes.
Wear personal protection equipment.
Provide adequate ventilation.

6.2 Environmental precautions

Environmental precautions

Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Keep container tightly closed in a cool, well-ventilated place.
Protect against direct sunlight.
Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Keep container tightly closed in a cool, well-ventilated place.
The floor should be leak tight, jointless and not absorbent.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Respiratory protection

Not required if used as intended.

Hand protection

Suitable material:

NBR (Nitrile rubber).

Material thickness:

0,35 mm

Suitable material:

FKM (fluoro rubber).

Material thickness:

0,4 mm

Suitable material:

CR (polychloroprene, chloroprene rubber).

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| | |
|---|---|
| Material thickness: | 0,5 mm |
| Suitable material: | PVC (Polyvinyl chloride). |
| Material thickness: | 0,5 mm |
| Eye protection | Tightly sealed safety glasses. |
| Skin and body protection | Wear suitable protective clothing. |
| General protective and hygiene measures | Do not eat, drink or smoke at the workplace. Avoid contact with skin and eyes. Keep away from food, drink and animal feed stuffs. Wash hands before breaks and after work. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|-------------------------------|--------------------------|
| Form | Liquid |
| Colour | Grey-brown |
| Odour | Hydrocarbons |
| Flash point [°C] | > 60 °C |
| Measuring method: | Closed cup |
| Density [g/cm ³] | > 1,68 g/cm ³ |
| Viscosity, dynamic [kg/(m*s)] | < 2.000 cP |
| Temperature: | (at 20 °C) |

SECTION 10: Stability and reactivity

10.1 Reactivity

| | |
|------------|--------------------|
| Reactivity | No data available. |
|------------|--------------------|

10.2 Chemical stability

| | |
|--------------------|--------------------|
| Chemical stability | No data available. |
|--------------------|--------------------|

10.3 Possibility of hazardous reactions

| | |
|---------------------|--------------------|
| Hazardous reactions | No data available. |
|---------------------|--------------------|

10.4 Conditions to avoid

| | |
|---------------------|--------------------|
| Conditions to avoid | No data available. |
|---------------------|--------------------|

10.5 Incompatible materials

| | |
|--------------------|--------------------|
| Materials to avoid | No data available. |
|--------------------|--------------------|

10.6 Hazardous decomposition products

| | |
|----------------------------------|--------------------|
| Hazardous decomposition products | No data available. |
|----------------------------------|--------------------|

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | |
|----------------------------|--------------------|
| Oral toxicity [mg/kg] | No data available. |
| Dermal toxicity [mg/kg] | No data available. |
| Inhalative toxicity [mg/l] | No data available. |

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11.2 Additional information

Other information (chapter 11.) Product has not been tested.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l] No data available.

Toxicity to daphnia [mg/l] No data available.

Toxicity to algae [mg/l] No data available.

12.2 Persistence and degradability

Elimination and distribution mechanisms No data available.

Elimination in purification plant No data available.

Biodegradability

Remarks: No data available.

12.3 Bioaccumulative potential

Bioaccumulation No data available.

Bioconcentration factor (BCF) No data available.

12.4 Mobility in soil

Distribution in the environment No data available.

Mobility

Mobility: No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Ecotoxicology No data available.

Environmental hazards Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations Treatment, storage, transportation, and disposal of waste material and empty containers must be in accordance with applicable Federal, State/Provincial, and local regulations.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG | Air transport ICAO/IATA |
|--------------------------|--|--|--|
| Description of the goods | No dangerous good in sense of these transport regulations. | No dangerous good in sense of this transport regulation. | No dangerous good in sense of this transport regulation. |

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SECTION 15: Regulatory information

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

Cassification in compliance with the Industrial Safety Regulation Combustible liquids.

SECTION 16: Other information

Modifications since last version

Reclassification.

Further information

The data so far as available are taken from the databases GESTIS / GESTIS International Limit Values, IUCLID respectively of external safety data sheets. This Safety Data Sheet was issued according to current EC guidelines. 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. The data is supposed to give advice for the safe handling of the mentioned product with regard to storage, processing, transport and waste disposal. The information cannot be applied to other products.

This Safety Data Sheet was issued according to current EC guidelines. The information given in the Safety Data Sheet corresponds to the best and latest of our knowledge, but they do not guarantee product properties and do not give reasons for a contractual legal relationship. The data is supposed to give advice for the safe handling of the mentioned product with regard to storage, processing, transport and waste disposal. The information cannot be applied to other products.