

Safety Data Sheet

Complies with regulation (EG) no. 1907/2006 (REACH), Annex II,
amended as per regulation (EG) no. 2020/878



Article No.: 1
Print date: 26.01.2024
Version: 1.0

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

1.1. Product identifiers

Article No. (manufacturer/supplier): 1
UFI: not applicable
Identification of the substance or mixture Retentis

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

Relevant identified uses:

Soil conditioner

Process category:

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC19 Hand-mixing with intimate contact and only PPE available.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

AgroBiogel GmbH
Königstetter Straße 128-134
A – 3430 Tulln
telephone: + 43 (0) 664 88508141

Dept. responsible for information:

Sicherheitsabteilung
E-mail (competent person) office@agrobiogel.com

1.4. Emergency telephone number

Vergiftungsinformationszentrale +43 (0) 1 406 43 43
Emergency tel. AgroBiogel GmbH +43 (0) 664 88508141
Business hours: Mon - Thu 7:00 - 16:00
Fri 7:00 - 12:15

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is not classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms

not applicable

Hazard statements

not applicable

Precautionary statements

EUH210 Safety data sheet available on request.

Contains

not applicable

Supplemental Hazard information (EU)

not applicable

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Other hazards

not applicable

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Preparation based on lignosulfonates

Hazardous ingredients

| EC-No. CAS-No. INDEX-No. | REACH-No. Chemical name Classification | Wt % Remark |
|--------------------------------|--|----------------|
| | not applicable | |

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Keep eyelids open, wash out with plenty of clean, fresh water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

Symptoms No information available.

Effects No information available.

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

Treatment

Treat symptomatically.

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons

strong water jet

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5.2 Special hazards arising from the substance or mixture

Not flammable (UN Handbook of Dangerous Goods Part 3).

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂), sulfur oxides (SO_x)

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid formation of dust. Keep away from sources of ignition. wear protective gear. Ventilate the affected area. Do not breathe dust.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Take up leaked material mechanically and collect it for disposal in accordance with local regulations in the containers provided (see Section 13). Carry out subsequent cleaning with cleaning agents, do not use solvents.

6.4 Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Do not inhale dust when using this preparation. Do not eat, drink or smoke at work. Personal protection equipment: see section 8. Always keep in containers made of the same material as the original container. Follow legal protection and safety regulations.

Precautions against fire and explosion

Dust forms explosive mixtures with air.

Take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a dry place.

Storage class (LGK according to TRGS 510): 13 – non-combustible solids

Hints on joint storage

Keep away from strongly acidic and alkaline materials and oxidizing agents.

Store away from food.

Further information on storage conditions

Recommended storage temperature: 15-25°C

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Occupational exposure limit values

General dust limit value for biologically inert suspended matter (GKV)
Average daily value: 10 mg/m³ (inhalable fraction); 5 mg/m³ (respirable fraction)
Short-term average (1h): 20 mg/m³ (inhalable fraction); 10 mg/m³ (respirable fraction)

DNEL

not applicable

PNEC

not applicable

8.2 Exposure controls

Ensure good ventilation. This can be achieved by local or room exhaust ventilation. If this is not sufficient to keep the dust concentration below the occupational exposure limit, an appropriate respirator must be worn.

Occupational exposure controls

Respiratory protection

If the dust concentration is above the occupational exposure limit, an approved respirator suitable for the purpose must be worn. The wearing time limits according to GefStoffV in connection with the rules for the use of breathing apparatus (BGR 190) must be observed. Only use respirators with a CE mark including a four-digit test number. Full face mask or mouthpiece with particle filter: Maximum application concentration for substances with limit values: P1 filter up to a maximum of 4 times the limit value; P2 filter up to a maximum of 15 times the limit value; P3 filter up to a maximum of 400 times the limit value.

Hand protection

For prolonged or repeated handling use the glove material: (nitrile rubber or fluorine rubber) thickness of the glove material > 0.11 mm ; Penetration time (maximum wearing time) > 480 min. The instructions and information from the protective glove manufacturer regarding use, storage, maintenance and replacement must be observed. Penetration time of the glove material depending on the intensity and duration of skin exposure. Recommended glove brands DIN EN 374 . Replace when worn! Barrier creams can help protect exposed areas of the skin. After contact, these should not be used under any circumstances.

Eye protection

Wear tightly fitting protective goggles if there is a risk of dust.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser. Do not use solvents or thinners.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state solid
Colour dark brown
Odour aromatic, like coffee / vanilla

| Safety relevant basis data | Unit | Method | Remark |
|----------------------------|----------------|--------|----------------|
| Flash point | not applicable | °C | DIN 53213-1 |
| Ignition temperature | not applicable | °C | DIN 51794 |
| Lower explosion limit | not applicable | Vol % | DIN EN 1839 |
| Upper explosion limit | not applicable | Vol % | DIN EN 1839 |
| Decomposition temperature | undetermined | °C | |
| Vapour pressure at 20 °C | not applicable | mbar | DIN EN 13016-1 |
| Melting point | undetermined | °C | DIN 51532 |

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| | | | |
|--|----------------|-------------------|--------------|
| Boiling temperature / boiling range | not applicable | °C | DIN 51751 |
| Density at 20 °C | undetermined | g/cm ³ | DIN 53217 |
| Water solubility | insoluble | g/L | |
| pH-value at 20°C, 10% slurry | 6,7 | | |
| Viscosity at 40 °C | not applicable | mPa.s | ISO 3219 |
| Grain size fraction <2.5 µm | 0,0 | | DIN EN 933-1 |
| Solvent separation test | not applicable | % | |
| Solid content | 100,0 | Wt.% | |
| Solvent content | | | |
| water | 0,0 | Wt.% | |
| organic solvents | 0,0 | Wt.% | |

9.2 **Other information**
not applicable

SECTION 10: Stability and reactivity

- 10.1. **Reactivity**
No further relevant information available.
- 10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7..
- 10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10.4. **Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5. **Incompatible materials**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10.6. **Hazardous decomposition products**
At high temperatures, hazardous decomposition products can form, e.g.: carbon dioxide, carbon monoxide, smoke, sulfur oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
No data on preparation itself available.

11.1 Information on toxicological effects

Acute toxicity
No data available.

Skin corrosion/irritation; serious eye damage/eye irritation
Skin and eyes: Shall not be classified as corrosive/irritant.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on the available data, the classification criteria are not met.

Mutagenicity

Based on the available data, the classification criteria are not met.

Toxicity for reproduction

Based on the available data, the classification criteria are not met.

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Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met.

Specific target organ toxicity

Single exposure

Based on the available data, the classification criteria are not met.

Repeted exposure

Based on the available data, the classification criteria are not met.

Aspiration hazard

Inhalation of dust above the air limit values can lead to damage to health, such as irritation of the mucous membranes and respiratory organs.

Practical experience/human evidence

Effects on health are not known.

Overall Assessment on CMR properties

not applicable

Remark

There is no information available on the preparation itself.

11.2 Information about other hazards

Endocrine disrupting properties

The substance/mixture does not contain any Constituents that are subject to REACH Article 57(f) or the delegated regulation (EU) 2017/2100 of the Commission or the Delegated Regulation (EU) 2018/605 of Commission in amounts of 0.1% or more have endocrine disrupting properties.

SECTION 12: Ecological information

Overall evaluation

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

Bioconcentration factor (BCF)

No data available.

12.4 Mobility in soil

KW-Index: < 40 mg/kg dry substance

Method: ÖNORM EN 14039:2005-01

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The substance/mixture does not contain any Constituents that are subject to REACH Article 57(f) or the delegated regulation (EU) 2017/2100 of the Commission or the Delegated Regulation (EU) 2018/605 of Commission in amounts of 0.1% or more have endocrine disrupting properties.

12.7 Other adverse effects

No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product Recommendation

Do not discharge into drains or rivers. Waste and containers must be disposed of in a safe manner. Disposal as hazardous waste in accordance with Section 18 AWG 2002 or disposal as a problematic substance in accordance with Section 16(5) AWG 2002.

List of proposed waste codes/waste designations in accordance with EWC

01 01 09 waste agricultural chemicals other than those mentioned in 02 01 08

Suggestion list for waste codes/waste designations according to EAKV

31482 Soil components from biological treatment

Packaging

Recommendation

Uncontaminated and completely empty packaging can be recycled. Containers that are not properly emptied must be disposed of as hazardous waste in accordance with Annex 2 II.14 Packaging of the AVV 2020.

SECTION 14: Transport information

14.1 UN-number

Land transport (ADR/RID):
Sea transport (IMDG): not applicable
Air transport (ICAO-TI / IATA-DGR):

14.2 UN proper shipping name

Land transport (ADR/RID):
Sea transport (IMDG): not applicable
Air transport (ICAO-TI / IATA-DGR):

14.3 Transport hazard class(es)

Land transport (ADR/RID):
Sea transport (IMDG): not applicable
Air transport (ICAO-TI / IATA-DGR):

14.4 Packing group

Land transport (ADR/RID):
Sea transport (IMDG): not applicable
Air transport (ICAO-TI / IATA-DGR):

14.5 Environmental hazards

Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see sections 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code
Special Provision not applicable
Limited quantities (LQ)
Transport category

Sea transport (IMDG):

EmS-No. not applicable
Limited quantities (LQ)

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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**
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

VOC-value (in g/L) ISO 11890-2: 0,0
VOC-value (in g/L) ASTM D 2369: 0,0

Guideline 2012/18/EU

Named substances in Appendix I. None of the ingredients are included.

Seveso III-Directive 2012/18/EU

Category not applicable

Regulation (EG) Nr. 1907/2006 Anhang XVII

Conditions of restriction not applicable

Restrictions of occupation

Employment restrictions according to the Maternity Protection Directive (92/85/EEC) for expectant or breastfeeding mothers. (§2b in conjunction with §2a (2) Z.8 MSchG)

Employment restrictions according to the Youth Employment Protection Act (94/33/EC). (§23 KJBG in conjunction with §3 KJBG-VO)

VOC system regulation: - must be observed. See Section 12.

Water hazard class (WGK) 1 slightly hazardous to water

Classification according to VbF 2023 no classification

Technical instructions (air)

TA-Luft (2002) Kapitel 5.2.1 Total dust, including fine dust

Overall, the following values in the exhaust gas must not be exceeded:

Mass flow 0,2 kg/h

or

Mass concentration 20 mg/m³

Other regulations, restrictions and prohibition regulations

No further relevant information available.

15.2 **Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

Full text of classification in section 3:

not applicable

Further information

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

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BAT: Biological workplace tolerance value

BGW: Biological limit

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

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IMDG: International Maritime Code for Dangerous Goods
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
LOAEC: lowest-observed-adverse-effect concentration
MAK: Maximum workplace concentration
NOAEL: no-observed-adverse-effect level
NOAEC: No Observed-Adverse Effect Concentration
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
NOELR: No Observable Effect Loading Rate
OECD: Organization for Economic Cooperation and Development
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No-Effect Concentration (REACH)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SVHC: Substances of Very High Concern
VbF 2023: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
vPvB: very Persistent and very Bioaccumulative

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.