**Hartsteinwerk Kitzbühel GesmbH**

**6372 Oberndorf in Tirol**



## SECTION 1: Identification of the Substance or Mixture and the Company

**1.1 Product Identifier**

**BIOLIT fine plus and BIOLIT ultrafine plus — ultra-finely ground volcanic rock powder with lactic acid bacteria**

**1. 2** Relevant identified uses of the substance or mixture and uses advised against

**1.2.1 Relevant uses**

Agricultural applications
Soil conditioner

**1.2.2 Uses for which caution is advised**

None known

**1.3 Details of the supplier who provides the Safety Data Sheet**

**Company**

Hartsteinwerk Kitzbühel GesmbH
Franz Cervinka-Weg 3
6372 Oberndorf in Tirol / AUSTRIA
Phone +43(0)5356 64333-60
Website www.biolit-natur.com
Email info@biolit-natur.com

**Department Providing Information**

**Technical Information** info@biolit-natur.com

**Safety Data Sheet** sdb@chemiebuero.de (Safety data sheets are not available for shipment)
Safety data sheets are available from the supplier.

**1.4 Emergency Number**

**Advisory Center** +43 (0) 1 406 43 43 (24 hours)

**Company** +43(0)5356 64 333-60 8:00 a.m. – 4:00 p.m.

## SECTION 2: Potential Hazards

**2.1** Classification of the Substance or Mixture [REGULATION (EC) No. 1272/2008]

No classification

**2.2 Labeling Elements**

The product is not subject to labeling requirements under Regulation (EC) No. 1272/2008 (CLP).

**Hazard pictograms** None

**Signal word** None

**Hazard Statements** None

**Safety instructions** None

**2.3 Other Hazards**

**Health Hazards** Contains no ingredients with endocrine-disrupting properties.

**Environmental Hazards** Does not contain any PBT or vPvB substances.

**Other Hazards** No other hazards have been identified based on current knowledge.

## SECTION 3: Composition / Information on Ingredients

**3.1 Substances**

**Not applicable**

**3.2 Mixtures**

**The product is a mixture.**

**Component Comments** Contains no hazardous components.

## SECTION 4: First Aid Measures

### 4.1 Description of First Aid Measures

**General Information**
Change contaminated clothing.

**If inhaled**
Ensure a supply of fresh air.
Seek medical attention if symptoms occur.

**After skin contact**
If the product comes into contact with the skin, rinse with water.
If skin irritation persists, consult a doctor.

**After eye contact**
Gently rinse with water for several minutes. Remove any contact lenses if possible. Continue rinsing.
If eye irritation persists: Seek medical advice/attention.

**If swallowed**
Seek medical advice.
Rinse mouth and drink plenty of water.
Do not induce vomiting.

### 4.2 Most Important Acute and Delayed Symptoms and Effects

Irritating Effects

### 4.3 Indications for Immediate Medical Attention or Special Treatment

Treat symptomatically.

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media

**Suitable Extinguishing Media**
The product itself is not flammable. Tailor firefighting measures to the surrounding fire.

**Unsuitable extinguishing media**
Full-stream water spray.

### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

### 5.3 Firefighting instructions

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with local regulatory requirements.

## SECTION 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Use personal protective equipment (protective gloves).
Avoid generating dust.

### 6.2 Environmental Protection Measures

No special measures required.

### 6.3 Methods and Materials for Containment and Cleanup

Collect mechanically. Avoid generating dust.
Dispose of the collected material in accordance with regulations.

### 6.4 Reference to Other Sections

See SECTIONS 8 and 13

## SECTION 7: Handling and Storage

### 7.1 Precautions for Safe Handling

Use only in well-ventilated areas.
Avoid dust formation and dust accumulation.

Wash hands before breaks and at the end of the workday.
Do not eat, drink, or smoke while using this product.

### 7.2 Conditions for safe storage, taking into account incompatibilities

Store only in the original container.

Do not store together with food or animal feed.
Keep container tightly closed.
Protect from heat and overheating.
Store in a dry place.

**Storage Class (TRGS 510)** Storage Class 13: Non-flammable solids

### 7.3 Specific End Uses

See “Use of the Product,” SECTION 1.2

## SECTION 8: Exposure Limits and Monitoring/Personal Protective Equipment

**8.1** Parameters to Be Monitored

**Occupational Exposure Limits (TRGS 900)**

Not applicable

**Occupational Exposure Limits (OEL)**

Not applicable

**EU Occupational Exposure Limits (2004/37/EC)**

Not applicable

### 8.2 Exposure Limits and Monitoring

**Additional Notes on the Design of Technical Systems** Ensure adequate ventilation at the workplace.
The general dust exposure limit must be observed. (TRGS 900: 10 mg/m³ (ÜF 2(II)) inhalable fraction, 1.25 mg/m³ respirable fraction)

**Eye protection** Safety glasses. (EN 166:2001)

**Hand protection**

For prolonged contact:
> 0.4 mm: butyl rubber, >480 min (EN 374-1/-2/-3).
These specifications are recommendations. For further information, please contact the glove supplier.

**Body Protection** Lightweight protective clothing

**Other protective measures** The type of personal protective equipment must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances. The chemical resistance of protective equipment should be verified with the supplier. Avoid contact with the eyes and skin.

**Respiratory protection** Respiratory protection in the event of dust formation.
Half-face mask—particle filter. (DIN EN 149)

**Thermal Hazards** No information available.

**Limitation and Monitoring of Environmental Exposure** See Sections 6 and 7.

## SECTION 9: Physical and Chemical Properties

**9.1** Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | **Solid** |
| **Form** | Powder |
| **Color** | Gray |
| **Odor** | Odorless |
| **Odor threshold** | Not applicable |
| **pH** | 8.4 (aqueous suspension) |
| **pH value [1%]** | Not determined |
| **Boiling point or initial boiling point and boiling range [°C]** | Not applicable |
| **Flash point [°C]** | Not applicable |
| **Flammability** | Not applicable |
| **Lower Explosion Limit** | Not applicable |
| **Upper explosive limit** | Not applicable |
| **Oxidizing properties** | no |
| **Vapor pressure [kPa]** | Not applicable |
| **Density [g/cm³]** | Not determined |
| **Relative density** | Not determined |
| **Bulk density [kg/m³]** | 1600 |
| **Solubility in water [g/L]** | Not determined |
| **Solubility in other solvents** | No information available. |
| **Partition coefficient n-octanol/water (log value)** | Not applicable |
| **Kinematic viscosity** | Not applicable |
| **Relative vapor density** | Not applicable |
| **Melting point/Freezing point [°C]** | 1150 |
| **Ignition temperature [°C]** | Not applicable |
| **Decomposition temperature [°C]** | Not determined |
| **Particle Properties** | No information available. |

**9.2 Other Information**

None

## SECTION 10: Stability and Reactivity

**10.1 Reactivity**

The product is stable under normal conditions.

**10.2 Chemical Stability**

Stable under normal ambient conditions (room temperature).

**10.3 Possibility of Hazardous Reactions**

No hazardous reactions are known.

**10.4 Conditions to Avoid**

Excessive heating

**10.5 Incompatible materials**

Strong acid or base solutions.

**10.6 Hazardous decomposition products**

No information available.

## SECTION 11: Toxicological Information

### 11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

**Acute Oral Toxicity**

| Product |
|---|
| Oral: Based on the available information, the classification criteria are not met. |

**Acute dermal toxicity**

| Product |
|---|
| Dermal: Based on the available information, the classification criteria are not met. |

**Acute inhalation toxicity**

| Product |
|---|
| Inhalation: Based on the available information, the classification criteria are not met. |

| | |
|---|---|
| **Serious eye damage/irritation** | Based on the available information, the classification criteria are not met. |
| **Skin corrosion/irritation** | Based on the available information, the classification criteria are not met. |
| **Respiratory tract/skin sensitization** | Based on the available information, the classification criteria are not met. |
| **Specific target organ toxicity following single exposure** | Based on the available information, the classification criteria are not met. |
| **Specific target organ toxicity following repeated exposure** | Based on the available information, the classification criteria are not met. |
| **Mutagenicity** | Based on the available information, the classification criteria are not met. |
| **Reproductive toxicity** | Based on the available information, the classification criteria are not met. |
| **Carcinogenicity** | Based on the available information, the classification criteria are not met. |
| **Aspiration hazard** | Based on the available information, the classification criteria are not met. |
| **General Remarks** | Toxicological data refer to the pure product. |

### 11.2 Information on Other Hazards

| | |
|---|---|
| **11.2.1 Endocrine-disrupting properties** | Contains no ingredients with endocrine-disrupting properties. |
| **11.2.2 Other Information** | None |

## SECTION 12: Environmental Information

**12.1 Toxicity**

**12.2 Persistence and Degradability**

| | |
|---|---|
| **Behavior in environmental compartments** | No information available. |
| **Behavior in wastewater treatment plants** | No information available. |
| **Biodegradability** | Not applicable |

### 12.3 Bioaccumulative Potential

Accumulation in organisms is not expected.

### 12.4 Mobility in Soil

No information available.

### 12.5 Results of the PBT and vPvB Assessment

Based on all available information, it is not classified as a PBT or vPvB.

### 12.6 Endocrine-disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other Adverse Effects

Do not allow the product to enter the environment or the sewer system uncontrolled.

## SECTION 13: Disposal Information

### 13.1 Waste Treatment Methods

Product residues must be disposed of in accordance with the Waste Framework Directive 2008/98/EC as well as national and regional regulations. No waste code number can be assigned to this product according to the European Waste Catalog (AVV), as classification is only possible once the consumer has determined the intended use. Within the EU, the waste code number must be determined in consultation with the waste disposal provider.

**Product**

| | |
|---|---|
| | Coordinate disposal with the authorities as necessary. |
| **AVV No. (recommended)** | 010308 dusty and powdery wastes, except those covered by 01 03 07 |
| **Uncleaned packaging** | |
| | Uncontaminated packaging can be recycled.<br>Packaging that cannot be cleaned must be disposed of in the same manner as the substance. |
| **AVV No. (recommended)** | 150102 Plastic packaging. |
| **ÖNORM S2100** | 92301 |

## SECTION 14: Transport Information

**14.1 UN Number or ID Number**

| | |
|---|---|
| **Land transport according to ADR/RID** | Not applicable |
| **Inland waterway transport (ADN)** | Not applicable |
| **Marine transport according to IMDG** | Not applicable |
| **Air transport according to IATA** | Not applicable |

**14.2 Proper UN shipping name**

**Land transport according to ADR/RID** NOT A DANGEROUS GOOD

| | |
|---|---|
| **Inland Waterway Transport (ADN)** | NOT A DANGEROUS GOOD |
| **Marine transport according to IMDG** | NOT CLASSIFIED AS "DANGEROUS GOODS" |
| **Air transport according to IATA** | NOT CLASSIFIED AS "DANGEROUS GOODS" |

**14.3 Transport hazard classes**

| | |
|---|---|
| **Land transport according to ADR/RID** | Not applicable |
| **Inland Waterway Transport (ADN)** | Not applicable |
| **Marine transport according to IMDG** | Not applicable |
| **Air transport according to IATA** | Not applicable |

## 14.4 Packaging Group

| | |
|---|---|
| **Land Transport According to ADR/RID** | Not applicable |
| **Inland Waterway Transport (ADN)** | Not applicable |
| **Maritime transport in accordance with IMDG** | Not applicable |
| **Air transport according to IATA** | Not applicable |

## 14.5 Environmental hazards

| | |
|---|---|
| **Land transport according to ADR/RID** | No |
| **Inland Waterway Transport (ADN)** | No |
| **Marine transport in accordance with IMDG** | No |
| **Air transport in accordance with IATA** | No |

## 14.6 Special Precautions for the User

See SECTIONS 6 through 8 for relevant information.

## 14.7 Transport of bulk cargo by sea in accordance with IMO instruments

Not applicable

# SECTION 15: Regulatory Information

## 15.1 Safety, health, and environmental regulations/specific legal provisions for the substance or mixture

| | |
|---|---|
| **EU REGULATIONS** | 2008/98/EC (2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707 |
| - **Commentary on the Components** | SVHC List (Candidate List of Substances of Very High Concern for Authorization): Contains none or less than 0.1% of the listed substances. |
| - **Annex XIV (REACH)** | The product contains no substances subject to authorization at concentrations of ≥ 0.1% in accordance with Annex XIV of Regulation (EC) No. 1907/2006 (REACH). |
| - **Annex XVII (REACH)** | The product contains no restricted substances ≥ 0.1% in accordance with Annex XVII of Regulation (EC) No. 1907/2006 (REACH).<br>The product is not subject to any restrictions under Annex XVII of Regulation (EC) No. 1907/2006 (REACH). |
| **TRANSPORT REGULATIONS** | ADR (2025); IMDG Code (2025, 42nd Amdt.); IATA DGR (2025) |
| **NATIONAL REGULATIONS (DE):** | Hazardous Substances Ordinance (GefStoffV) 2021; Water Resources Act (WHG); TRGS: 200, 220, 615, 900, 905. |
| **NATIONAL REGULATIONS (AT):** | Waste Management Act (BGBL 43/2004) and in accordance with the Assessment Ordinance (BGBL 178/2000); ÖNORM S2100; Storage Ordinance; |
| - **Regulation on Flammable Liquids (VbF)** | Not applicable |
| - **Water** Hazard **Class** | Not hazardous to water, according to AwSV dated April 18, 2017 |
| - Major Accident **Ordinance** | No |
| - **Classification according to TA-Luft** | 5.2.3 Dust Emissions During Handling, Storage, or Processing of Solid Substances |
| - **Storage Class (TRGS 510)** | LGK 13: Non-flammable solids |
| - **Occupational restrictions** | no |
| - **VOC (2010/75/EC)** | Not applicable |

## 15.2 Chemical Safety Assessment

## SECTION 16: Other Information

**16.1** Abbreviations and Acronyms:

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
RID = Regulations concerning the International Carriage of Dangerous Goods by Rail
ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
AVV = Waste Catalog Regulation
ATE = acute toxicity estimate
BGI = Information from the German Social Accident Insurance Association
CAS = Chemical Abstracts Service
CLP = Classification, Labeling, and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labeling of Chemicals
IATA = International Air Transport Association
IBC Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IFA = Institute for Occupational Safety and Health of the German Social Accident Insurance
IMDG = International Maritime Dangerous Goods Code
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = Lethal concentration, 0%
LOAEL = Lowest Observed Adverse Effect Level
LGK = Storage Class
LL50 = Median Lethal Loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative, and Toxic Substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorization, and Restriction of Chemicals
STP = Sewage Treatment Plant
TA-Luft = Technical Guidelines for Air Quality Control
TLV®/TWA = Threshold Limit Value – Time-Weighted Average
TLV®STEL = Threshold Limit Value – Short-Time Exposure Limit
TRGS = Technical Rules for Hazardous Substances
VOC = Volatile Organic Compounds
vPvB = Very Persistent and Very Bioaccumulative
AwSV = Ordinance on Facilities for Handling Substances Hazardous to Water
E = inhalable fraction
A = alveolar fraction
H = dermal absorption
X = carcinogen of Category 1A or 1B
Y = There is no risk of fetal harm if the occupational exposure limit (AGW) and the biological limit value (BGW) are complied with
Z = A risk of fetal harm cannot be ruled out even if the AGW and the BGW are complied with
AGS = Committee on Hazardous Substances
DFG = DFG Senate Commission for the Assessment of Substances Harmful to Health
EU = European Union

**16.2 Other Information**

**Revised entries**

None

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