

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 1

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Vermiculite

Article No.: 53241

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

*Construction material, absorbant material
Insolation material
Horticulture*

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

Other Hazards

next page: 2

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 2

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

2.3. *Repeated inhalation of large quantities of dust over a longer period of time increases the risk of lung diseases.
After eye contact: dust can lead to mechanical irritation.*

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Vermiculite expanded. Aluminium iron magnesium silicate

Information on Components / Hazardous Ingredients:

Vernuculite	100 %	CAS-Nr: 1318-00-09 EINECS-Nr: 310-127-6 EC-Nr: 603-518-9
-------------	-------	--

Additional information:

Exempted from the mandatory REACH Registration.

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Take affected person to fresh air.

After skin contact:

*Wash off with plenty of water.
In case of skin irritation consult physician.*

After eye contact:

*Do not rub eyes dry, as additional corneal damage is possible due to the mechanical stress.
Remove contact lens.
Rinse open eyes with plenty of water for at least 45 minutes to remove all particles.
If possible, use isotonic eye rinsing solution (0.9% NaCl). Always consult an occupational physician or ophthalmologist.*

After ingestion:

Rinse mouth and give plenty of water to drink.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

*Inhalation of dust can aggravate existing diseases or impairments of the respiratory organs, such as asthma or emphysema.
Contact with product may aggravate existing skin or eye diseases.*

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

next page: 3

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 3

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Product itself does not burn.

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

No special hazards.

5.3. Advice for Firefighters

Protective equipment:

No special measures required.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Ensure adequate ventilation.

Wear protective clothing.

6.2. Environmental Precautions

Environmental precautions:

No special measures required.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Clean up by moistening product to avoid dust formation or use special vacuum cleaner.

6.4. Reference to other Sections

For information for safe handling see Section 7.

Protective clothing, see Section 8.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Wear adequate protective clothing (see para. 8).

Avoid formation of dust.

Hygienic measures:

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry room.

Protect against humidity.

Requirements for storage areas and

next page: 4

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 4

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

containers:

Open and handle container with care.

Information on fire and explosion protection:

No special measures necessary.

Storage class:

13; Non combustible solids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TLV: 1.25 mg/m³ air-borne fraction (general dust limit)

TLV: 10 mg/m³ inhalable fraction (general dust limit)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

Avoid contact with skin, eyes and clothing.

Do not inhale dust. Do not eat, drink or smoke while working.

Wash hands before breaks and at the end of work.

Wash contaminated clothes before reuse.

Respiratory protection:

Wear protective mask (FFP1) if maximum workplace concentration is exceeded (EN 141).

Hand protection:

Protective gloves recommended for workers with sensitive skin or dermatitis.

Protective glove material:

Eye protection:

Recommended in case of dust formation (EN 166).

Body protection:

Environmental precautions:

Prevent from getting into the soil, surface water and sewage

next page: 5

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 5

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>solid</i>
<i>Color:</i>	<i>golden yellow / beige</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>not applicable</i>
<i>pH-Value:</i>	<i>6.5 - 7.5</i>
<i>Melting temperature:</i>	<i>> 1000°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>not relevant</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>not applicable</i>
<i>Density:</i>	<i>not available</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not determined</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>not applicable</i>

next page: 6

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

53241 Vermiculite

Page 6

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

Oxidizing properties:

none

Bulk density:

*60 - 160 kg/m³
(depending on the grain size)*

9.2. Further Information

Solubility in solvents:

*Insoluble in organic solvents.
Soluble in strong mineral acids.*

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

0 - 4 mm

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Unknown.

10.4. Conditions to Avoid

Conditions to avoid:

No further information available.

Thermal decomposition:

10.5. Incompatible Materials

Hydrofluoric acid, pyrophoric solids

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

No toxicity expected.

Acute Toxicity

LD50, oral:

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

next page: 7

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 7

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

No irritant effect known.

Irritant effect on eyes:

No irritant effect known.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No mutagenic effects known.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No cancerogenic effect known.

Teratogenicity:

No relevant data found.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: no information available.

Aspiration hazard:

No information available.

11. 2. Information on other Hazards

Endocrine Disrupting Properties:

This substance/mixture does not contain any components with endocrine disrupting properties in a percentage of 0.1 or greater, according to Article 57(f) of the REACH Regulation (EC) No. 1907/2006 or the Delegated Regulation (EC) 2017/2100 or the Delegated Regulation (EC) 2018/605.

12. Ecological Information

12. 1. Aquatic Toxicity

Not hazardous to the aquatic environment.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12. 2. Persistency and Degradability

Inorganic substance, biologically non-degradable.

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

next page: 8

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 8

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

12.5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12.6. Endocrine Disrupting Properties

This substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) No. 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12.7. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

If possible reuse product.

Dispose according to the waste disposal guidelines 2008/98/EC.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

next page: 9

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 9

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

Not classified as environmentally hazardous.

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Maritime Transport in Bulk according to IMO Instruments

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

Exempted from the mandatory REACH Registration (Annex V No. 7)

15. 3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Regulation (EU) 2019/1021 - Persistent organic pollutants: not regulated / not applicable

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable

16. Other Information

This product should be stored, handled and used in accordance

next page: 10

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



53241 Vermiculite

Page 10

Revised edition: 30.06.2023

Version: 4

Printed: 15.05.2024

with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.