amt postpro®

VERMICULITE MSDS SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (EU CLP);

OCTOBER 2026 // V1.0

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

1.1 Product identifiers

Product name :	Exfoliated vermiculite
Product Number :	100207
Brand :	Additive Manufacturing Technologies
REACH No. :	Exempt from registration (naturally occurring mineral, not chemically modified). See section 15.

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

Industrial use :	Absorbent and cushioning packing material for the transport of AMT PostPro products.

1.3. Details of the supplier of the safety data sheet

Company :	Additive Manufacturing Technologies Ltd Unit N, Europa House Airport Business Park Sheffield S9 1XU UNITED KINGDOM
Telephone :	+44 114 697 4025
E-mail :	support@amtechnologies.com

1.4 Emergency telephone number

Emergency Phone # :	For 24/7 multilingual advice for a spill, leak, fire, exposure, or accident call CHEMTREC at +44 20 3807 3798 (London) and provide CCN 1024844. Backup: +44 20 3885 0382 (UK, multilingual) / +1 703 527 3887 (US, English).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. No signal word.

2.3 Other hazards

Dust may cause minor transient respiratory irritation at high concentrations. Contains trace amounts of respirable crystalline silica (quartz, cristobalite). See sections 3 and 11.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Vermiculite is the mineralogical name given to a group of hydrated laminar magnesium-aluminium-iron silicates which resemble mica in appearance. When subjected to heat vermiculite exfoliates or expands into worm like particles.

Chemical name	EC No.	CAS No.	% Weight	CLP classification
Vermiculite	310-127-6	1318-00-9	95 – 98%	Not classified
Apatite	-	-	<3%	Not classified
Mica phlogopite	310-127-6	12001-26-2	<3%	Not classified
Diopside	-	14483-19-3	<3%	Not classified
Alpha cristobalite & tridymite	238-455-4	14464-46-1	<0.1%	STOT RE1
Alpha quartz	238-878-4	14808-60-7	0.01 – 0.05%	STOT RE1

The mixture is not classified under Regulation (EC) No. 1272/2008: the respirable quartz content is <0.0001% of the product.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled
Remove exposed person to fresh air, keep warm and at rest.
In case of skin contact
Harmless and non-irritant.
In case of eye contact
Immediately flush with clean water or eye wash solution, holding the eyelids apart for at least 15 minutes. Seek medical attention if irritation persists.
If swallowed
No first aid required as ingestion is not anticipated.

4.2 Most important symptoms and effects, both acute and delayed

No acute and delayed symptoms and effects are observed.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically, no special antidote required.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Non combustible product but the packaging and surrounding materials may be combustible. No limitations on extinguishing media.

5.2 Special hazards arising from the substance or mixture

No specific fire or explosion hazard.

5.3 Advice for firefighters

No specific fire fighting equipment is required. Use an extinguishing agent suitable for the surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment in compliance with national legislation. Prevent formation of dust if possible. Respiratory equipment should be worn if dust is created. Provide adequate ventilation.

6.2 Environmental precautions

No special precautions.

6.3 Methods and materials for containment and cleaning up

Avoid dry sweeping, dust creation and wind dispersal. Collect using a special vacuum cleaner with particle filter. Transfer to a suitable labelled container for disposal according to local regulations (see section 13). If a vacuum system is not available only wet clean up methods should be used.

6.4 Reference to other sections
Suitable equipment for eye/face, skin and respiratory protection is given in section 8. Suitable methods for disposal are given in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid dust generation. Do not breathe dust. Remove contaminated clothing and protective equipment before entering eating areas.
The use of engineering measures (e.g. local dust extraction) is recommended to provide effective dust control in order to ensure compliance with the current Occupational Exposure Limits.

7.2 Conditions for safe storage, including any incompatibilities
Keep in original packaging, in dry conditions and store in a way to prevent any accidental damage and creation of dust. Avoid wind dispersal.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. Use of this product is restricted to "professional user". Please refer to section 8.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Components with workplace control parameters

CAS No.	Substance	UK WEL TWA – 8 hrs
1318-00-9	Vermiculite	10 mg/m³ (total dust)
14808-60-7	Quartz	0.1 mg/m³ (respirable)

Source of reference for OELs: HSE EH40, Workplace Exposure Limits. For other countries, refer to the applicable national occupational exposure limits.

8.2 Exposure controls
Appropriate engineering controls
Where operations generate dust, use ventilation to keep exposure to airborne particles below the exposure limit. Wash hands at the end of each work session.
Personal protective equipment
Eye/face protection
Goggles (EN 166).
Skin protection
Protective gloves if required. Skin protection compounds are recommended for workers who suffer from dermatitis or sensitive skin.
Body protection
Protective overalls. Soiled clothing must be adequately laundered to avoid becoming a dust source.
Respiratory protection
In cases of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with European or national legislation, i.e. Type FFP2.
Control of environmental exposure
No special precautions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Golden brown flakes
b) Odour	Odourless
c) Odour Threshold	No data available
d) pH	8 – 9 (40 g/L water @ 20 °C)
e) Melting point/freezing point	>1330 °C

f) Initial boiling point and boiling range	Not applicable
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	Not flammable
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	2.5
n) Water solubility	Insoluble in water and in organic solvents. Soluble in strong mineral acids.
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	Not applicable
t) Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
Inert, not reactive.

10.2 Chemical stability
Chemically stable.

10.3 Possibility of hazardous reactions
If used as recommended no hazardous reactions are to be expected.

10.4 Conditions to avoid
Not relevant

10.5 Incompatible materials
No particular incompatibility.

10.6 Hazardous decomposition products
Not relevant.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Classification criteria are not met.
Ingestion
No known hazards from ingestion.
Inhalation
Dust may cause minor transient respiratory irritation at high concentrations.
Skin contact
Skin irritation is not anticipated.
Eye contact
Eye irritation is not anticipated.
Target organs
With the concentrations of quartz being less than 0.05% in this product overexposure to quartz is not expected at the given concentrations present, but quartz / cristobalite is a confirmed human carcinogen. Repeated inhalation of quartz over time may cause fibrotic lung disease and respiratory cancer.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
This product is not readily biodegradable.

12.3 Bioaccumulative potential
Not applicable.

12.4 Mobility in soil
Negligible.

12.5 Results of PBT and vPvB assessment
This mixture is not classified as PBT or vPvB by current EU criteria.

12.6 Other adverse effects
By intended use and observance of regulations / advices for storage and handling no adverse effects are expected.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
This product is not classified as hazardous waste under the EC Directive 2008/98/EC or as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894. Dispose of according to national / regional legislation.
Product contaminated with other substances (for example solvent after a leak from a packaged container) must be assessed and disposed of according to the safety data sheet of the contaminating substance.

SECTION 14: Transport information

14.1 UN number
Not applicable.

14.2 UN proper shipping name
Not applicable.

14.3 Transport hazard class(es)
Not classified.

14.4 Packaging group
Not classified.

14.5 Environmental hazards
Not classified.

14.6 Special precautions for user
Not applicable.

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

Regulation	Status
Regulation (EC) No 1005/2009 (substances that deplete the ozone layer)	Not applicable
Regulation (EU) 2019/1021 (persistent organic pollutants)	Not applicable
Regulation (EU) No 649/2012 (export and import of dangerous chemicals)	Not applicable
Regulation (EC) No 1272/2008 (classification, labelling and packaging of substances and mixtures)	Not applicable

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)
Vermiculite is a naturally occurring product that has not been chemically modified. Article 2(7)(b) and Annex V paragraph 7 of the REACH regulations exempt this material from REACH registration.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Issue date
October 2026
Revision date
October 2026
Version #
October 2026 // v1.0
Sources of data
Based on the manufacturer's safety data sheet, version dated 5 March 2015. Workplace exposure limits: HSE EH40.
Abbreviations and acronyms
WEL TWA – 8 hrs: Workplace Exposure Limit, time weighted average over 8 hours.
Training advice
All employees should be given adequate training in the proper use and handling of this product and any precautions and protective equipment required under applicable regulations.
Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.
For further information please contact support@amtechnologies.com

amt postpro®

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