

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product: Pumice

Supplier: Techfil (Europe) Ltd
The Old Dairy
Biddenden Road
Headcorn
Kent, TN27 9LF
United Kingdom
tel. 01622 717780

info@techfil.co.uk

2. PRODUCT DESCRIPTION

Complex natural silicate, consisting mainly of amorphous silica (SiO_2) but also containing minor quantities of various metallic oxides.

3. CHEMICAL ANALYSIS

Constituent	Name	% Occurrence
SiO_2	Silicon Dioxide	74.55
Al_2O_3	Aluminium Oxide	12.45
K_2O	Potassium Oxide	4.50
Na_2O	Sodium Oxide	4.00
Fe_2O_3	Ferric Oxide	<2.00
CaO	Calcium Oxide	<2.00
MgO	Magnesium Oxide	<2.00
TiO_2	Titanium Oxide	<2.00
SO_3	Sulphur Trioxide	0.20
MnO	Manganese Oxide	0.10
CO_2	Carbon Dioxide	0.10
FeO	Ferrous Oxide	0.06
P_2O_5	Phosphorous Pent	0.005
$\text{H}_2\text{O}+$	Combined Water	4.35

This media contains no free silica.

4. HANDLING PRECAUTIONS

No hazard has been brought to our attention as a result of the normal industrial use of this product. As with any finely divided inert material, steps should be taken to avoid inhalation of dust. Pumice consists of amorphous silica and does not contain quartz in allotropic crystalline forms such as Cristobalite, Tridymite etc. It is, however, recommended to adhere to the T.L.V. specified by the A.C.G.I.H. and as listed for "Nuisance Particulates" in H.S.E. guidance note EH40.

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5. FIRST AID

For eyes - wash out thoroughly with water to remove all dust particles.

6. SPILLAGE

Sweep up into another container for disposal as inert solid waste.

7. FIRE

Not Applicable.

8. STORAGE & HANDLING

Store in dry place, handle carefully to avoid raising high concentration of dust in the work area.

9. PROTECTIVE DEVICES

Eye wash bottle with clean water. Suitable dust mask if exposed to high dust concentration's. If persistent consider local extraction / ventilation systems to keep concentration in air below 10mg cubic metre- the threshold limit value listed for "Nuisance Particulates" in Health & Safety. Executives Guidance Note EH40 (but not specifically listing Pumice Powder).

10. PHYSICAL ANALYSIS

Appearance	Solid
Colour	Grey
Odour	Odourless
Melting Point	1200 ^{oc}
True Density	2.40 g/cm ³
Bulk Density	0.41 - 0.76 g/cm ³
Viscosity	Not Applicable
Solubility in water	Insoluble in water
PH Value	7.5 - 8.0
Flash Point	Not Applicable
Ignition Point	Not Applicable
Explosive Limit	Not Applicable
Refractive Index	1.5
Hardness	5.5 (mohs)

11. STABILITY & REACTIVITY

Pumice is an inert mineral, insoluble in water, alkalis and acids (other than Hydroflouric acids).

12. TOXICOLOGICAL EFFECTS

Non - toxic. Does not cause allergic or narcotic reaction. Lead & asbestos totally absent.

13. ENVIRONMENT PROTECTION

Natural, inert material. Is not a pollutant.

14. WASTE DISPOSAL

As inert solid waste.

15. TRANSPORTATION

The transportation of Pumice is not classified as hazardous. The product is packed in polypropylene sacks with an internal polythene lining and machine sealed. Alternatively packed in paper valve sacks.

16. LEGISLATION

CAS N. 1332-09-8
EH40 - Occupational Exposure Limits
EH44 - Dust: General Principles of Protection
No relevant EINECS No. due to EU legislation 79/831, 6th amendment 67/548/EEC included in heading "substances recurrent in nature".

REVISED

01/2025