



## PUMICE

**1. PRODUCT & COMPANY IDENTIFICATION**

Product: Pumice

Supplier: John Winter & Co Ltd  
P0 Box 21  
Washer Lane  
Halifax  
HX2 7DP

Tel: + 44 (0) 1422 364213  
Fax: + 44 (0) 1422 330493

**2. PRODUCT DESCRIPTION**

Complex natural silicate, consisting mainly of amorphous silica (SiO<sub>2</sub>) but also containing minor quantities of various metallic oxides.

**3. CHEMICAL ANALYSIS**

CONSTITUENT	NAME	% OCCURENCE
SiO <sub>2</sub>	Silicon Dioxide	70.90
Al <sub>2</sub> O <sub>3</sub>	Aluminium Oxide	12.76
TiO <sub>2</sub>	Titanium Oxide	0.14
Fe <sub>2</sub> O <sub>3</sub>	Ferric Oxide	1.75
FeO	Ferrous Oxide	0.64
MnO	Manganese Oxide	0.09
CaO	Calcium Oxide	1.36
MgO	Magnesium Oxide	0.60
Na <sub>2</sub> O	Sodium Oxide	3.23
K <sub>2</sub> O	Potassium Oxide	3.83
P <sub>2</sub> O <sub>5</sub>	Phosphorous Pentoxide	0.015
CO <sub>2</sub>	Carbon Dioxide	0.04
SO <sub>3</sub>	Sulphur Trioxide	0.21
H <sub>2</sub> O+	Combined water	3.88

Small variations in analysis will occur due to the type of pumice

**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

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inhalation of dust. Pumice consists of amorphous silica & does not contain quartz in allotropic crystalline forms such as Crystobalite, Tridymite etc. It is however, recommended to adhere to the TLV specified by the A.C.G.I.H. & as listed for "Nuisance Particulates" in H.S.E. guidance note EH40.

**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 a 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 concentrations. If persistent consider local extraction/ventilation systems to keep concentration in air below 10 mg/cubic metre, the threshold limit value listed for "Nuisance Particulates" in Health & Safety. Executives Guidance Notes EH40 (but not specifically listing Pumice Powder).

**10. PHYSICAL ANALYSIS**

Appearance	Solid
Colour	Grey
Odour	Odourless
Melting	1500°C
True Density (ISO 787.10)	2.313 0 2.356 gms/cc
Apparent Density	0.400 - 0.900 gms/cc
Viscosity	N/A
Solubility in water	Insoluble in water
pH value	7.5 - 8.0



## PUMICE

Flash point	N/A
Ignition Point	N/A
Explosive Limit	N/A
Refractive Index	1.5
Hardness	6 (Mohs)

**11. STABILITY & REACTIVITY**

Pumice is an inert mineral, insoluble in water, alkalis & acids (other than Hydrofluoric 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**

An 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 & machine sealed. Alternatively packed in paper valve sacks.

**16. LEGISLATION**

**EH40 - Occupational Exposure Limits**

**EH44 - Dust - General Principles of Protection**

**No relevant EINECS No due to EU legislation 79/831, 6<sup>th</sup> amendment 67/548/EEC included in heading "substances recurrent in nature".**