

1. IDENTIFICATION

Product Name Pumice Sand

Other Names Milled Pumice; Pumice Sand - Coarse Grade; Pumice Sand - Fine Grade; Pumice Sand - Medium Grade

Uses Horticulture, cryogenic insulation, construction, etc.

Chemical FamilyNo Data AvailableChemical FormulaUnspecifiedChemical NamePumice

Product Description Milled Pumice is essentially an amorphous, hydrated glassy volcanic rock of rhyolitic composition, consisting primarily of

fused sodium potassium aluminium silicate.

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled



Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Milled Pumice	Unspecified	1332-09-8	100 %
May contain: Crystalline silica (Cristobalite [CAS#14464-46-1]/Quartz [CAS#14808-60-7])	SiO2	Unspecified	<0.1%

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth with water, then give plenty of water to drink. If vomiting occurs, give further water. Get

medical advice/attention if you feel unwell.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. In all

cases of eye contamination, it is a sensible precaution to seek medical advice.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim from exposure (avoid becoming a casualty). Remove contaminated clothing and loosen

remaining clothing. Patient to assume most comfortable position and kept at rest until fully recovered. If respiratory

symptoms persist, get medical advice/attention.

Advice to Doctor Treat symptomatically.

Medical Conditions Aggravated by Inhaling crystalline silica-containing dust can aggravate upper respiratory conditions such as asthma or emphysema.

Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Non-combustible; Milled Pumice is a fully oxidised non-flammable mineral.

Extinguishing Media If material involved in a fire, use extinguishing media suitable for surrounding area.

Fire and Explosion Hazard No information available.

Hazardous Products of

Combustion

Fire or heat may produce irritating, toxic and/or corrosive fumes.

Special Fire Fighting Instructions

Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

Flash Point No Data Available **Lower Explosion Limit** No Data Available **Upper Explosion Limit** No Data Available **Auto Ignition Temperature** No Data Available **Hazchem Code** No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust

and contact with eyes, skin and clothing.

Clean Up Procedures Collect material (sweep up, but avoid generating dust) and place it in suitable containers for later disposal (see SECTION

13).

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

Decontamination No information available.

Environmental Precautionary

Measures

Avoid contaminating waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective

equipment as required (see SECTION 8).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers closed when not in use - check

regularly for spills. Keep away from incompatible materials (see SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For Silica, crystalline (respirable dust):

- Safe Work Australia Exposure Standard for Cristobalite (CAS No. 14464-46-1): TWA = 0.05 mg/m3; Known to have

carcinogenic potential for humans (Carc. 1A).

- Safe Work Australia Exposure Standard for Quartz (CAS No. 14808-60-7): TWA = 0.05 mg/m3; Known to have

carcinogenic potential for humans (Carc. 1A).

- New Zealand Workplace Exposure Standard for Silica-Crystalline (all forms): TWA = 0.05 mg/m3 (respirable dust);

Confirmed carcinogen (6.7A).

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures Ensure ventilation is adequate to maintain air concentrations below exposure standard. A system of local and/or general

exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally

preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment

- Respiratory protection: If dust exists, use respirators suitable for nuisance dust. Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses.
- Hand protection: Handle with gloves. Recommended: Impervious gloves.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Always wash hands before eating, drinking or using the toilet. Wash contaminated clothing and other PPE before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Grit

Odour No information available.

Colour Brown

Ηα No Data Available **Vapour Pressure** No Data Available **Relative Vapour Density** No Data Available No Data Available **Boiling Point Melting Point** approx. 1,250 °C **Freezing Point** No Data Available Solubility Soluble in HF **Specific Gravity** 2,100 kg/m3 **Flash Point** No Data Available **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available No Data Available **Corrosion Rate Decomposition Temperature** No Data Available Density No Data Available **Specific Heat** No Data Available No Data Available **Molecular Weight Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available No Data Available **Vapour Temperature** Viscosity No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion No information available.

No Data Available

No Data Available

Volatile Percent

VOC Volume

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

No information available.

Fire

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible; Milled Pumice is a fully oxidised non-flammable mineral.

Reactions That Release Gases or

Vapours

Fire or heat may produce irritating, toxic and/or corrosive fumes.

Release of Invisible Flammable

Vapours and Gases

10. STABILITY AND REACTIVITY

General Information No information available.

Chemical Stability Stable.

Conditions to Avoid Avoid generating dust.

Materials to Avoid Incompatible/reactive with hydrofluoric acid (HF).

Hazardous Decomposition

Products

Fire or heat may produce irritating, toxic and/or corrosive fumes.

Hazardous Polymerisation Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information Information on possible routes of exposure:

- Ingestion: No adverse effects expected.

- Eye contact: Exposure to the dust may cause discomfort due to the particulate nature.

- Skin contact: Not expected to be a skin irritant.

- Inhalation: Inhalation of dust may result in respiratory irritation.

Chronic effects: Long term exposure to mineral dust which contains crystalline silica can cause the lung disease silicosis. Silica dust, crystalline, in the form of quartz or cristobalite is classified by the IARC Monographs as "Carcinogenic to

humans" (Group 1).

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available.

Persistence/Degradability No information available.

Mobility No information available.

Environmental Fate Avoid contaminating waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill Normally approved for disposal at approved land waste sites.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name
Pumice Sand
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
UN Number
No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
UN Number
No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping NamePumice SandClassNo Data AvailableSubsidiary Risk(s)No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Pumice Sand Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping NamePumice SandClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION

Related Product Codes PUSAND1000, PUSAND1001, PUSAND1002, PUSAND1003, PUSAND1004, PUSAND1005, PUSAND2000, PUSAND2001,

PUSAND2002, PUSAND3000, PUSAND4000, PUSAND4200, PUSAND4201, PUSAND4202, PUSAND4203, PUSAND4300, PUSAND4500, PUSAND4502, PUSAND4503, PUSAND4504, PUSAND4600, PUSAND4601, PUSAND4602, PUSAND4603, PUSAND

PUSAND4700, PUSAND5500

Revision 5

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

 $\textbf{TLV} \ \mathsf{Threshold} \ \mathsf{Limit} \ \mathsf{Value}$

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight