



# PRICE CHEMICALS PTY LIMITED

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## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

**Revision Date** JULY 2011

**Product Name** DIATOMACEOUS EARTH FLUX CALCINED

**Other Names** DIATOMITE ; KIESELGUHR ; INFUSORIAL EARTH RADIOLITE 900

**Uses** Filtration, clarifying and decolourizing, insulation, absorption, mild abrasive, drilling-mud thickener, extender in paints, rubber and plastic products, ceramics, paper coating, anticaking agent in fertilizers, asphalt compositions, chromatography, refractories, acid-proof liners, catalyst carrier.

#### Contact Information

Organisation	Location	Telephone	Ask For
Price Chemicals Pty Ltd	10 Pile Rd Somersby NSW 2250 Australia	+61 2 43400088	Technical Officer
Poison Information Centre	Westmead NSW Australia	131126	
Chemcall 24 Hour Emergency Number	Australia New Zealand	1800-127406 0800-243622	
National Poisons Centre	New Zealand	0800-764766	

### 2. HAZARD IDENTIFICATION

NOT Hazardous according to criteria of NOHSC/ASCC.

**Risk Phrases** No data available.

#### Safety Phrases

S22 Do not breathe dust.

**ERMA New Zealand Approval Code** HSR002512

**HSNO Hazard Classification** 6.7A

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	CAS Number	Proportions (%)
DIATOMACEOUS EARTH FLUX CALCINED	[68855-54-9]	100
AMORPHOUS SILICA	[61790-53-2]	>63
CRISTOBALITE	[14464-46-1]	<36
QUARTZ	[14808-60-7]	<1

### 4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

**Swallowed** Give victim water to gargle in mouth. If symptoms persist, seek medical advice.

**Eye** Immediately flush eyes with plenty of water holding eyelids open. If irritation persists, seek medical advice.

**Skin** Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical advice.

**Inhaled** Remove from exposure to fresh air. Have victim blow nose and gargle water in mouth to evacuate dust. If irritation persists, seek medical advice.

**Advice to Doctor** Treat symptomatically based on individual reactions of patient and judgement of doctor.

**Aggravated medical conditions caused by exposure** Persons with pre-existing respiratory problems may be more susceptible to the effects from this product.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media** In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.

**Hazards from Combustion Products** Product is non-combustible. Incompatible with oxidizing agents, acids, bases, alkali and sources of ignition.

**Special Protective Precautions and Equipment for Fire Fighters** Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.

**Flammability Conditions** Product is a non-flammable solid.

Additional Information

**Hazchem Code** N/A

### 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management Authority.

**Methods and Materials for Containment and Clean Up** Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling.

**Conditions for Safe Storage (Including Any Incompatibles)** Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including oxidizing agents, acids, bases, alkali and sources of ignition. Protect from direct sunlight and moisture. This product is not classified dangerous according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Container Type** Store in original packaging as approved by manufacturer.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards** No exposure standard has been established for the product Diatomaceous Earth cas no: 68855-54-9 by the Australian National Occupational Health and Safety Commission (NOHSC). However the following exposure standards apply; Diatomaceous Earth (uncalcined) cas no: 61790-53-2 TWA = 10mg/m<sup>3</sup> Cristobalite cas no: 14464-46-1 TWA = 0.1mg/m<sup>3</sup> Quartz cas no: 14808-60-7 TWA = 0.1mg/m<sup>3</sup>

**Biological Limit Values** No information available on biological limits for this product.

**Engineering Controls** 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** RESPIRATOR: Wear an effective dust mask. EYES: Safety glasses with side shields. HANDS: Dust-proof gloves are recommended. CLOTHING: Standard work uniform/clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** white powder

**Formula** Unspecified

**Odour** odourless

**Vapour Pressure** Not applicable.

**Vapour Density** Not applicable.

**Boiling Point** Not applicable.

**Melting Point** Not applicable.

**Solubility in Water** Negligible

**Specific Gravity** 2.3 (Water = 1)

**Flash Point** Not applicable.

**pH** 8-11 ( )

**Lower Explosion Limit** Not applicable.

**Upper Explosion Limit** Not applicable.

**Ignition Temperature** Not applicable.

**Specific Heat Value** Not applicable.

**Particle Size** Not applicable.

**Volatile Organic Compounds (VOC) Content** Not applicable.

**Evaporation Rate** Not applicable.

**Viscosity** Not applicable.

**Percent Volatile** Not applicable.

**Octanol/Water partition coefficient** Not applicable.

**Saturated Vapour Concentration** Not applicable.

**Additional Characteristics** Not applicable.

**Flame Propagation/Burning Rate of Solid Materials** Not applicable.

**Properties of Materials That May Initiate or Contribute to Fire Intensity** Not applicable.

**Potential for Dust Explosion** Not applicable.

**Reactions that Release Flammable Gases** Not applicable.

**Fast of Intensely Burning Characteristics** Not applicable.

**Non-flammables That Could Contribute Unusual Hazards to a Fire** Not applicable.

**Release of Invisible Flammable Vapours and Gases** No data available.

**Decomposition Temperature** No data available.

**Additional Information** Solubility: Slightly soluble in strong acid and caustic alkali.

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Product is stable under normal conditions of use and storage.

**Conditions to Avoid** Avoid excessive heat, generating dust, direct sunlight, moisture and high temperatures.

**Incompatible Materials** Incompatible with oxidizing agents, acids, bases, alkali and sources of ignition.

**Hazardous Decomposition Products** No information available on decomposition products.

**Hazardous Reactions** No data available.

## 11. TOXICOLOGICAL INFORMATION

**Toxicity Data** Carcinogenicity: IARC has classified Diatomaceous Earth (uncalcined), Diatomaceous Earth (Flux-calcined) as group 3 "Not classifiable as to carcinogenicity to humans". It has also classified Quartz and Cristobalite as group 1 "Carcinogenic to humans" under the conditions of inhaled from occupational sources. IARC: International Agency for Research on Cancer. NTP: National Toxicology Program. OSHA: Occupational Safety and Health Administration.

Health Effects - Acute

**Swallowed** No information available on symptoms from ingestion of this product.

**Eye** No information available on symptoms from eye exposure.

**Skin** No information available on symptoms from skin exposure.

**Inhaled** Long term inhalation of this product may cause pneumoconiosis.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No ecological information available for this product.

**Persistence and Degradability** No information available on persistence/degradability for this product.

**Mobility** No information available on mobility for this product.

**Environmental Fate (Exposure)** Avoid contaminating waterways, drains and sewers.

**Bioaccumulative Potential** No information available on bioaccumulation for this product.

## 13. DISPOSAL CONSIDERATIONS

**Disposal** Dispose of in accordance with all local, state and federal regulations.

**Special Precautions for Land Fill or Incineration** Contact a specialist disposal company or the local waste regulator for advice.

## 14. TRANSPORT INFORMATION

Land Transport (Australia)

**Regulation Name** ADG Code

**UN Number** Not applicable.

**Shipping Name** DIATOMACEOUS EARTH FLUX CALCINED

**Dangerous Goods Class** Not applicable.

**Subsidiary Risk** Not applicable.

**Pack Group** Not applicable.

**Precaution for User** No data available.

**Hazchem Code** N/A

**EPG** Not applicable.

**Special Provision** Not applicable.

Land Transport (New Zealand)

**Regulation Name** NZS5433

**UN Number** Not applicable.

**Shipping Name** DIATOMACEOUS EARTH FLUX CALCINED

**Dangerous Goods Class** Not applicable.

**Subsidiary Risk** Not applicable.

**Pack Group** Not applicable.

**Precaution for User** No data available.

**Hazchem Code** N/A

**EPG** Not applicable.

**Special Provision** Not applicable.

Sea Transport

**Regulation Name** IMDG Code

**UN Number** No data available.

**Shipping Name** No data available.

**Dangerous Goods Class** No data available.

**Subsidiary Risk** No data available.

**Pack Group** No data available.

**Precaution for User** No data available.

**Hazchem Code** No data available.

**EPG** No data available.

**Special Provision** Not applicable.

## 15. REGULATORY INFORMATION

This product does not need to be labelled in accordance with EC directives or respective national laws.

**Poisons Schedule** N/A

**EPG** N/A

**AICS Name** No data available.

**NZ Toxic Substance** N

**HSNO Hazard Classification** 6.7A

**ERMA Approval Code** HSR002512

## 16. OTHER INFORMATION

**Literature References** No data available.

**Sources for Data** No data available.

Legend to Abbreviations and Acronyms

< less than

> greater than

**ADG** Australian Dangerous Goods Code

**AICS** Australian Inventory of Chemical Substances

**CAS** Chemical Abstracts Service (Registry Number)

**cm<sup>2</sup>** square centimetres

**CO<sub>2</sub>** Carbon Dioxide

**COD** Chemical Oxygen Demand

**deg C ( °C )** degrees Celsius

**ERMA** Environmental Risk Management Authority

**g** gram

**g/cm<sup>3</sup>** grams per cubic centimetre

**g/l** grams per litre

**HSNO** Hazardous Substance and New Organism

**IATA** International Air Transport Association Dangerous Goods Regulations

**IDLH** Immediately Dangerous to Life and Health

**IMDG** International Maritime Dangerous Goods Code

**immiscible** liquids are insoluble in each other

**kg** kilogram

**kg/m<sup>3</sup>** kilograms per cubic metre

**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

**ltr** Litre

**m<sup>3</sup>** cubic metre

**mbar** millibar

**mg** milligram

**mg/24H** milligrams per 24 hours

**mg/kg** milligrams per kilogram

**mg/m<sup>3</sup>** milligrams per cubic metre

**Misc** miscible

**miscible** liquids form one homogeneous liquid phase regardless of the amount of either component present

**mm** millimetre

**mPa.s** milli Pascal per second

**N/A** Not Applicable

**NOHSC** National Occupational Health and Safety Commission

**OECD** Organization for Economic Co-operation and Development

**PEL** Permissible Exposure Limit

**ppb** parts per billion

**ppm** parts per million

**ppm/2h** parts per million per 2 hours

**ppm/6h** parts per million per 6 hours

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

**TLV** Threshold Limit Value

**tne** tonne

**TWA** Time Weighted Average

**ug/24H** micrograms per 24 hours

**UN** United Nations (number)

**wt** weight

This MSDS summarises Price Chemicals Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Price Chemicals Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

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