

MATERIAL SAFETY DATA SHEETS
PRODUCT: DICALITE D.E. POWDER, DIATOMACEOUS EARTH
Date of Issue: 19 July 2003

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of WorkSafe Australia

COMPANY DETAILS

Company : Premium Quality Pool Products Pty Ltd
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PRODUCT IDENTIFICATION

Product Name: Dicalite Products
Other Names: Diatomaceous Earth, D.E. Powder
UN Number: Non allocated
DG Class: Non allocated
Packing Group: Non allocated
Hazchem Code: Non allocated
Poisons Schedule: Not Scheduled
Use: Filtration aid. Other industrial uses.

PHYSICAL DESCRIPTION AND PROPERTIES

Appearance: White to off-white powder. No odour.
Boiling Point and vapour pressure: No data
Melting/softening point: >400° C
Volatile materials: No Data. Expected to be low at 100°C
Flashpoint: Does not burn.
Specific gravity: Approx 2.4
Solubility in water: Insoluble
Corrosiveness: Not corrosive

COMPOSITION

Chemical entity	CAS No	Proportion	Worksafe	
			Exposure Limits	
			TWA	STEL
		%	mg/m ³	mg/m ³
Flux calcined diatomaceous earth†	68855-54-9	pure*	not set †	not set
Cristabolite	14464-46-1	<70	0.1	not set
Quartz	14808-60-7	<5	0.2	not set

*Commercially pure.

†Note that product may contain up to 5% crystalline silica and up to 70% cristabolite as part of this “pure” product. See below for details of the exposure values for these ingredients. Trace quantities of impurities are also likely. This is a commercial product, and the exact ratio of components may vary.

HEALTH HAZARD INFORMATION

This product may contain crystalline silica at up to 75% concentration in the form of quartz or cristabolite. Long term exposure to crystalline silica causes silicosis, a form of pulmonary fibrosis. Continued exposure to crystalline silica can lead to cardiopulmonary impairment. Symptoms are usually delayed (10 years or more).

Crystalline silica has been reviewed by IARC. IARC found limited evidence for carcinogenicity of crystalline silica in humans and sufficient evidence in experimental animals. The ingredients are not listed as carcinogenic in Work safe’s document “Exposure Standards for Atmospheric Contaminant in the Occupational Environment” (May 1995), nor in NOHSC’s “List of Designated Hazardous Substances” (April 1999).

Effects from Acute Exposure

Swallowed: Data suggests that the product should be considered to be non toxic by ingestion.

Eyes: Data suggests that this product should be classified as a mechanical irritant to the eyes. Will cause irritation until particles are removed from the eye or until material dissolves.

Skin: Data suggest that the product should be classified as not irritating or harmful to the skin.

Inhaled: Data suggests that the product should be considered to be possibly irritating by inhalation. Inhalation may result in irritating of upper respiratory tract. See above for information relating to long term exposure to silica.

Primary route of exposure is inhalation and skin and eye contact.

FIRST AID

- Ingestion:** If in mouth, thoroughly wash mouth with water, and then give some water to drink. Further measures should not be necessary. **DO NOT** induce vomiting. Poison Information Centre phone **13 1126** Australia wide.
- Eyes:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a Doctor immediately.
- Skin:** If skin contact occurs, remove contaminated clothing immediately and wash skin with soap and water.
- Inhalation:** Remove victim from exposure – avoid becoming a casualty. Lay victim down and keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.
- Advice to Doctor:** Treat symptomatically. Not the nature of this product.

FIRST AID FACILITIES

Eye wash facility in the area of use

PRECAUTIONS FOR USE

ENGINEERING CONTROLS

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high; you are advised to modify the process or environment to reduce the problem.

PERSONAL PROTECTION

Avoid skin and eye contact. Wear overalls, chemical goggles, full-face shield, impervious gloves, rubber boots and rubber apron when working with large volumes. Use with adequate ventilation. If inhalation risk exists, wear respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and protective equipment before re-using.

FLAMMABILITY

Does not burn.

STORAGE AND HANDLING

SPILLS AND DISPOSAL

Wear protective equipment to prevent skin and eye contamination and inhalation of dust. In event of a major spill, prevent spillage from entering drains or water courses. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, preventing runoff from entering drains. This material may be suitable for approved landfill. Dispose of only in compliance with local, state and Federal regulations. Launder all contaminated clothing before re-use.

FIRE AND/OR EXPLOSION HAZARD

There is no explosion hazard from this material under normal circumstances.

Flashpoint:	Does not burn.
Extinguishing Media:	Use media suited to burning material.
Special Fire fighting procedures:	As a minimum, wear overalls, goggles and gloves.
Unusual fire and Explosion Hazards:	This product is unlikely to decompose at temperatures normally reached in a fire. There is little or no risk of an explosion from this product if involved in a fire.
Stability:	Stable.
Polymerisation:	Will not polymerise.
Decomposition Products:	No known decomposition products at temperatures normally achieved in a fire.
Materials to avoid:	No particular incompatibilities.

CONTACT INFORMATION

CONTACT: CHIEF EXECUTIVE OFFICER: (02) 9790 8777

DISCLAIMER

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