

Trade name: **PROMARINE®-450**

1. Identification of the product and of the company

Product name: PROMARINE®-450
Intended Product use: Self supporting silicate board used for fire protection in shipping industries and for high temperature insulation.
Company
Comp : Promat International (Asia Pacific) Ltd.
Address : Unit 19-02-01, Level 2, PNB Damansara,
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2. Composition / Information on ingredients

Description: Silicate Fire Protective Board, in large dimensions, for ship building applications in preventive fire protection and in technical high temperature insulation.
Chemical characterisation This product is a manufactured article, not a substance nor a preparation.
It is an autoclaved calcium silicate board, reinforced with glass fibres. Asbestos-free product.

3. Hazard Identification

Indication of the hazards: The installed product in its final application: no hazards known.
When machining (drilling, cutting, sanding, etc.) the product: airborne dust can be released.
- As with most types of nuisance dust, excessive inhalation of dust may cause irritation of the airways.
- Eye contact with dust may lead to transient eye irritation or inflammation.
- Prolonged skin contact may lead to skin irritation.
- Long term hazards: see section 11
Specific risk information for humans and environment: see section 7 and 8

4. First aid measures

Inhalation: Remove to fresh air
Ingestion: Drink plenty of water
Skin contact: Rinse the skin thoroughly with water
Eye contact: Do not rub the eye, flush copiously for at least 15 minutes. If eye irritation or inflammation persists, seek medical advice.

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Additional Information: The product is non-combustible, according to the standards such as AS 1530.1, BS 476: Part 4, etc.

6. Accidental spill / release measures

Methods for cleaning up: Shovel up small pieces. Dampen down any dust before putting into open skips

7. Handling and storage

Handling: Instructions for handling and machining
 -Dust, generated during machining and processing must be exhausted and the regulatory occupational exposure limits for total and respirable dust must be respected.
 -Work in a well ventilated area.
 -Use tools with appropriate dust exhaust equipment.
 -When total dust concentration is higher than occupational exposure limits (refer to local regulations), or when dust extraction is not available, use individual respiratory protective equipment.
 -Collect dust with a vacuum cleaner or soak with water before sweeping up.

Storage: Store in dry, covered and frost proof area.

8. Exposure controls / Personal protection

When machining (drilling, cutting, sanding, etc.) boards, respect Occupational Exposure Limits for inhalable and respirable dust and for respirable quartz dust.

Check the latest Occupational Exposure Limits (OEL) for airborne contaminants that are applicable in your country.

Typical Occupational Exposure Limits (8hrs TWA) on the date of issue of this document are:

In mg/m ³	Fraction	COUNTRY (3)					
		AUS	CHN	HK	INDIA	MY	SG
Particles NOR (1)	Inhalable	10		10		10	10
	Respirable		4	4			5
Quartz (2)	Respirable	0.2	0.5	0.1		0.1	0.1

- (1) Particles NOR: particles not otherwise classified or regulated (nuisance dust). Applies for all other components in the product.
 (2) Quartz – CAS number: 14808 - 60 - 7
 (3) Country abbreviations on basis of IANA (Internet Assigned Numbers Authority)

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Engineering controls:	Ensure vacuum dust exhaust with correct filter when using motorised machining tools.
Personal protection:	Avoid breathing dusts. Avoid eye and skin contact. Wear personal protective equipment appropriate to the task. (See below)
- Respiratory protection:	Use approved individual respirators (e.g. disposable P2 types) whenever occupational exposure levels are or can be foreseen to be exceeded.
- Eye protection:	Use safety glasses whenever tools are used and dusts are produced.
- Skin protection:	Use working clothes and gloves to protect against mechanical injury and direct skin contact.

9. Physical and chemical properties

Appearance: Rigid self supporting board with smooth upper surface
Colour: off-white **Odour:** None

Important safety parameters:

Boiling point / boiling range:	N.A.
Melting point / melting range:	N.A.
Flash point:	N.A.
Flammability (solid, gaz):	N.A.
Flammability temperature:	N.A.
Auto-flammability:	N.A.
Explosive properties (danger and limits):	N.A.
Oxidizing properties:	N.A.
Vapour pressure:	N.A.
Relative density:	ca. 450kg/m ³
Solubility:	
- water solubility:	Insoluble
- fat solubility:	N.A.
pH value:	9
Partition coefficient (n-octanol/water):	N.A.
Viscosity:	N.A.

10. Stability and reactivity Nothing to report

11. Toxicological information

Acute toxicity: Calcium Silicates boards are not expected to have significant acute toxicity. Apart from mild skin, throat, airway or eye irritation, workers producing these boards have reported no significant health complaints.

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Further information: Inhalation of excessive concentrations of quartz-containing dust can be hazardous for health. This risk will be minimal if correct working practices are observed and applied. (Refer to Section 8)

12. Ecological information Nothing to report.

13. Disposal considerations

Product disposal: Handle as construction industry waste and dispose in accordance with local legislation.
Packaging disposal: Dispose according to local legislation.

14. Transport information

Road transport: Product is not classified as dangerous.
Inland shipping transport: Product is not classified as dangerous.
Sea shipping transport: Product is not classified as dangerous.
Air transport: Product is not classified as dangerous.

15. Regulatory information

Labelling according to EEC – Directives:
The Product is a manufactured article, not a substance nor a preparation. Therefore the EU Directive on classification and labelling 67/548EEC is not applicable.

Danger indication: not applicable **Symbol:** not applicable
R – sentence: not applicable
S – sentence: not applicable

16. Other information

The recommendations for use and installation of PROMARINE[®]-450, of various fire protection systems, have to be followed as indicated in the Promat Handbook.

The health and safety information contained herein is believed to be accurate and correct based on our current knowledge at the date of issue and no liability can be accepted for any loss, injury or damage resulting from its use. It is intended as a guide for the safe handling, storage and use under normal conditions, but does not necessarily refer to the particular requirements of a customer when further advice should be obtained.

This data sheet and the information it contains is not intended to supersede any terms or conditions of sale and does not constitute a specification. Nothing contained herein is to be construed as a recommendation for use in violation of any patent or applicable laws or regulations.
