

MATERIAL SAFETY DATA SHEET

Product Code: M1103; File S:\Pinnacle.doc

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SECTION 1 – STATEMENT OF HAZARDOUS NATURE, CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC AND CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO THE ADG CODE.

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Product Name: PINNACLE

Recommended use: Water Repellent Coating for Masonry

SECTION 2 – HAZARDS IDENTIFICATION

Emergency overview: Flammable. Irritating to the skin, eyes and throat. Ingestion may be harmful.

Health Effects:

Inhalation: Inhalation of vapours irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

Ingestion: Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea, vomiting, and diarrhoea may also result.

Skin Contact: May cause irritation with redness and pain. May be absorbed through the skin with possible systemic effects.

Eye Contact: Vapours cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Chronic Exposure: Chronic exposure may cause skin effects.

SECTION 3 – COMPOSITION & INFORMATION ON INGREDIENTS

Ingredients	CAS No	%
Isopropyl Alcohol	67-63-0	30-60
Alkyalkoxysilane	Confidential	10-30
N-Butyl Acetate	123-86-4	<10
Fluorinated Copolymer	-	<10

SECTION 4 – FIRST AID MEASURES

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Chronic: No long term health effects are known.

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SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Flammable Liquid. Vapours are heavier than air. Static electricity may accumulate and ignite vapours.

Hazardous Decomposition Products: Silicon dioxide, Carbon oxides and formaldehyde.

Fire Fighting Precautions: Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Extinguishing Media: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills: Wear protective equipment to prevent skin and eye contamination. Contain using sand or soil - prevent run off into drains and waterways. Remove ignition sources. If diked material can be pumped, store recovered material in an appropriate container. Use absorbent (soil, sand, vermiculite or other inert material) to clean up residual material. Collect and seal in properly labelled drums for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling: Use with adequate ventilation or use respiratory protection to control exposure to less than NOHSC limits. Avoid skin and eye contact.

Storage: Classified as a FLAMMABLE LIQUID Class 3 for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements. Store in a cool, dry place and out of direct sunlight. Store away from ignition sources (heat, sparks or flames) and keep container earthed to avoid static discharge. Keep containers closed at all times - check regularly for leaks.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia). However the following apply to the ingredients:

Isopropyl Alcohol (2-Propanol): TWA 400 ppm (983 mg/m³), STEL 500 ppm (1230 mg/m³).

N-Butyl Acetate: TWA 150 ppm; 713 mg/m³; STEL: 200 ppm (950 mg/m³)

Engineering measures: Use in well-ventilated area. Keep containers closed when not in use.

Personal protection equipment: overalls, safety shoes, chemical goggles, gloves (s). Avoid skin and eye contact. Wear overalls, chemical goggles and impervious gloves. If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/ NZS 1715 and AS/ NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form/ Colour/ Odour: Colourless liquid with a solvent odour.

Solubility: Insoluble in water. Soluble in simple esters, alcohols and most aromatic solvents.

Specific Gravity (20°C): 0.83

Relative Vapour Density (air=1): N Av

Melting Point (°C): N Av

Boiling Point (°C): N Av

Vapour Pressure (20°C): N Av

Flash Point (°C): Isopropanol: 13; Isobutyltriethoxysilane: 62; Butyl acetate 22

Decomposition Point (°C): N Av

Flammability Limits N Av

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pH (1% aq soln) N Av
Autoignition Temp (°C): N Av
Viscosity (20°C): N Av
% Volatile by volume: N Av
Evaporation Rate (n-Butyl acetate=1): N Av

N Av = Not available; N App = Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable. Incompatible with oxidizing agents, strong acid and alkalis and moisture

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity/ chronic toxicity: No LD50 data available for this product.

Ingredients:

Isopropanol: Oral rat LD50: 5045 mg/kg; skin rabbit LD50: 12.8 g/kg; inhalation rat LC50: 16,000 ppm/8-hour; investigated as a tumorigen, mutagen, reproductive effector. Not an NTP carcinogen, IARC category 3.

N-butylacetate, CAS# 123-86-4: Inhalation, mouse: LC50 =6 gm/m³/2H; Inhalation, rat: LC50 =2000 ppm/4H; Oral, mouse: LD50 = 7060 mg/kg; Oral, rabbit: LD50 = 3200 mg/kg; Oral, rat: LD50 = 10768 mg/kg; Skin, rabbit: LD50 = >20 mL/kg. ACGIH: A4 - Not Classifiable as a Human Carcinogen

SECTION 12 – ECOLOGICAL INFORMATION

Avoid contaminating waterways. No environmental impact data found for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority.

SECTION 14 – TRANSPORT INFORMATION

Australian Dangerous Goods Code (ADG Code) for transport by road or rail: UN 1993; Shipping name: Flammable Liquid N.O.S. (Isopropanol); Class 3; Hazchem Code: 3[Y]E; PG II

SECTION 15 – REGULATORY INFORMATION

NOHSC (Worksafe Australia) Labelling: Hazard Category: Xi Irritant. R-phrases: R11 Highly Flammable. R36/37/38 Irritating to eyes, respiratory system and skin. R 66 Repeated exposure may cause skin dryness or cracking. S-phrases: S16 Keep away from sources of ignition. S23 Do not breathe vapour. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29 Do not empty into drains. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

SUSDP Labelling: Poisons Schedule (Aust)/Toxic Substance (NZ): Not a scheduled poison

SECTION 16 – OTHER INFORMATION

The above information is accurate to the best of the knowledge available to us. However since data safety standards and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control we make no warranty, whether express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Users should satisfy themselves that they have all current data relevant to their particular use