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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Revision Date: October 2007

Product Name: PREMIUM SEAL

Uses: Stone & Masonry sealant

Organisation	Location	Telephone	Ask For
Spirit Marble & Tile Care Pty Ltd	1/36 Seton Road Moorebank NSW 2170 Australia	+61 2 97346937	Technical Officer
Poisons Information Centre	Westmead NSW Australia	131126 1800-251525	
Chemcall	Australia	1800-127406	
	New Zealand	0800-243622	
National Poisons Centre	New Zealand	0800-764766	

2. HAZARD IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC

Dangerous According to the Australian Code for the Transport of Dangerous Goods

Classified as Dangerous Goods According to NZS 5433:1999

FLAMMABLE; IRRITANT

Risk Phrases

- R11 Highly flammable.
- R36 Irritating to eyes.
- R67 Vapours may cause drowsiness and dizziness.

ERMA New Zealand Approval Code : HSR001180

HSNO Hazard Classification : 3.1B 6.1E 6.3B 6.4A

This Material Safety Data Sheet may not provide exhaustive guidance for all HSNO Controls assigned to this substance. The ERMA website www.ermanz.govt.nz should be consulted for a full list of triggered controls and cited regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportions (%)
ISOPROPYL ALCOHOL	[67-63-0]	50-70
TRIMETHOXY (2,4,4-TRIMETHYLPENTYL) SILANE	[34396-03-7]	8-15
ACTIVE RESINS	SECRET	10-25

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed

Ingestion (slight), DO not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform artificial respiration. Seek immediate medical attention.

Eye

If eye contact, check for and remove any contact lenses . IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used . DO NOT use an eye ointment. Seek medical attention.

Skin

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Inhaled

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult administer oxygen. If the victim is not breathing perform artificial respiration. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material toxic, infectious or corrosive. Seek immediate medical attention.

Advice to Doctor

Support cardiovascular and respiration function.

Additional Information

Aggravated medical conditions caused by exposure

Repeated or prolonged exposure is not known to aggravate medical conditions.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Fire fighters should wear full protective equipment including self-contained breathing apparatus. Highly flammable in presence of open flames and sparks, of heat of oxidizing materials. Flammable in presence of combustible materials. Use dry chemical powder for small fire and use alcohol foam, water spray or fog. Vapor may travel considerable distance to source of ignition flash back. When heated to decomposition it emits acrid smoke and fumes.

Hazards from Combustion Products

Flammable liquid. This product is stable. Incompatible with various substances such as oxidizing agents, acids. Slightly reactive to reactive with moisture. When heated decomposition, it emits acrid smoke and fumes.

Special protective precautions and equipment for fire fighters

No Data Available

Flammability Conditions

Flammable liquid. This product is stable.

Additional Information

Hazchem Code: 3[Y]E

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures

Clean up personnel should wear splash goggles, full suit, vapor respirator, boots and gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Methods and materials for containment and clean up

Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container.

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure an eye bath and safety shower are available and ready for use.

Conditions for safe storage, including any incompatibles

Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground equipment containing material. DO NOT ingest. Do not breathe gas, fumes, vapors or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact skin and eyes. Keep away from incompatibles such as oxidizing agents, acids. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (sparks or flame).

Container Type

No Data Available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards

ISOPROPYL ALCOHOL: TWA: 400ppm from OSHA (United States,1992). Period: 8 hours TWA: 980 mg/m³ from OSHA (United States 1976). Period: 8 hour(s). STEL: 500 ppm OSHA (United States, 1976). Period: 15 minutes(s). TWA: 400 ppm from ACGIH (United States, 1999). Period: 8 hour(s). STEL: 500ppm from ACGIH (United States, 1999). Period: 15 minute(s). EXPOSURE STANDARDS ESTABLISHED BY THE WORKSAFE AUSTRALIA. TWA: 400ppm 983 mg/m³ STEL: 500ppm 1.230 mg/m³

Biological Limit Values

No Data Available

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Personal protection: Respiratory protection: Vapor respirator. Be sure to use MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation inadequate. Eyes protection: Wear splash goggles. Body protection: Wear chemical resistant protective suit. Hands protection: Wear butyl rubber gloves. Feet protection: Wear chemical resistant safety boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Aromatic, pleasant resembling a mixture of ethanol and acetone liquid. With slight bitter, burning taste. Colourless.
Formula	(CH ₃) ₂ CHOH
Odour	No Data Available
Vapour Pressure	33 mm Hg (1 atmosphere)
Vapour Density	No data
Boiling Point	82.22 deg C
Melting Point	-88.5 deg C
Solubility in water	see below
Specific Gravity	0.79 (Water = 1)
Flash Point	12 deg C

pH	7 ()
Flammability Limits (as percentage volume in air)	
Lower Explosion Limit	2
Upper Explosion Limit	12
Ignition Temperature	No Data
Specific Heat Value	No Data
Particle Size	No Data
Volatile Organic Compounds (VOC) content	No Data
Evaporation Rate	No Data
Viscosity	No Data
Percent Volatile	No Data
Octanol/Water partition coefficient	No Data
Saturated Vapour Concentration	No Data
Additional Characteristics	No Data
Flame Propagation/Burning Rate of Solid Materials	No Data
Properties of materials that may initiate or contribute to fire intensity	No Data
Potential for Dust Explosion	No Data
Reactions that Release Flammable Gases	No Data
Fast or Intensely Burning Characteristics	No Data
Non-flammables that could contribute unusual hazards to a fire	No Data
Release of invisible flammable vapours and gases	No Data
Decomposition Temperature	No Data

Additional Information

Solubility: Easily soluble in cold water, hot water, methanol, diethyl ether. Partially soluble in n-octanol. Viscosity: 2.4 cP Flash point: Closed cup: 11.67 deg C/ Open cup: 18.3 deg C
Evaporation rate: 2.88 compared to Butyl acetate. Critical temperature: 232.5 Vapor Density: 2.08 (Air =1) Volatility: 100% (v/v). 100% (w/w) Molecular Weight: 60.09 g/mole

10. STABILITY AND REACTIVITY

Chemical Stability: No Data

Conditions to avoid: No Data

Incompatible Materials: No Data

Hazardous Decomposition Products: No Data

Hazardous Reactions: No Data

11. TOXICOLOGICAL INFORMATION

Toxicity Data

Toxicity to animals: WARNING: The LC50 values hereunder are estimated on the basis of A-4hour exposure. Acute oral toxicity: (LD50): 5045 mg/kg (rat) Acute dermal toxicity: (LD50): 12800 mg/kg (rabbit) Acute toxicity of the vapor: (LC50): 16970 ppm 4 hour(s) (rat) Chronic effects on humans: DEVELOPMENTAL TOXICITY: PROVEN The substance is toxic to kidneys, lungs, the nervous system, the reproductive system, liver, immune system, skin eyes. Other toxic effects on humans: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant, sensitizer, permeator), of eye contact (irritant), of inhalation.

Health Effects - Acute

Swallowed

Very hazardous in case of ingestion.

Eye

Hazardous in case of eye contact (irritant).

Skin

Hazardous in case of skin contact (irritant, sensitizer, permeator). Skin inflammation is characterized by itching, scaling, reddening, or occasionally, blistering.

Inhaled

Hazardous in case of inhalation.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No Data

Persistence and degradability: No Data

Mobility: No Data

Additional information

Environmental fate (exposure): No Data

Bioaccumulative potential: No Data

13. DISPOSAL CONSIDERATIONS

Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Special Precautions for land fill or incineration

No Data Available

14. TRANSPORT INFORMATION

UN No.	1219
Shipping Name	ISOPROPANOL (ISOPROPYL ALCOHOL)
Dangerous Goods Class	3
Subsidiary Risk	None Allocated
Pack Group	II
Precaution for User	FLAMMABLE; IRRITANT
Hazchem Code	3[Y]E



15. REGULATORY INFORMATION

Poisons Schedule	N/A
EPG	16
AICS Name	2-PROPANOL
NZ Toxic Substance	N
Additional information	No Data

16. OTHER INFORMATION

Additional information

Legend to abbreviations and acronyms:

<	less than
>	greater than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
CO ₂	Carbon Dioxide
COD	Chemical Oxygen Demand
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substance and New Organism
IDLH	Immediately Dangerous to Life and Health
LC ₅₀	LC stands for lethal concentration. LC ₅₀ 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.
LD ₅₀	LD stands for "Lethal Dose". LD ₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
Misc	miscible
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
RCP	Reciprocal Calculation Procedure

STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations (number)
cm ²	square centimetres
deg C (°C)	degrees Celsius
g	gram
g/cm ³	grams per cubic centimetre
g/l	grams per litre
immiscible	liquids are insoluble in each other
kg	kilogram
kg/m ³	kilograms per cubic metre
ltr	Litre
m ³	cubic metre
mPa.s	milli Pascal per second
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m ³	milligrams per cubic metre
miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimetre
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
tne	tonne
ug/24H	micrograms per 24 hours
wt	weight