

MATERIAL SAFETY DATA SHEET

Page 1

PRODUCT: CPD ACRYLIC CURE & SEAL (SILANE) OTC



SECTION 01: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: CPD Construction Products
219 Connie Crescent, Unit #13
Concord, Ontario Canada L4K 1L4

Prepared by: R. J. Green

Preparation Date: January 5th, 2009

Product Name: CPD Acrylic Cure & Seal (Silane) OTC

Material Use: Concrete curing and concrete sealing compound containing silane formulated to meet OTC - V.O.C. requirements

Emergency Telephone Number: CANUTEC: (613) 996-6666

SECTION 02: HAZARDOUS IDENTIFICATION

ROUTE OF ENTRY:

SKIN CONTACT: Moderately irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

SKIN ABSORPTION: No harmful affects with normal skin.

EYE CONTACT: Contact with the eye may cause moderate to severe irritation.

INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness and even death.) High vapour concentrations are irritating to the eyes, nose, throat and lungs.

INGESTION: Product may be harmful or fatal if swallowed. Material is a pulmonary aspiration hazard. Material can enter lungs and cause damage. Ingestion of this product may cause central nervous system effects, which may include dizziness, loss of balance and coordination, unconsciousness, coma and even death.

EFFECTS OF ACUTE EXPOSURE: Refer to Route of entry.

EFFECTS OF CHRONIC EXPOSURE: Refer to Route of entry.

PRE-EXISTING CONDITIONS: The following diseases or disorders may be aggravated by exposure to this product: skin, eye, lung (asthma-like conditions.)

MATERIAL SAFETY DATA SHEET

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	% (pbw)	C.A.S.#	ACGIH (TLV/TWA)
Acetone	30-60	67-64-1 500	500 ppm
Light Aromatic Solvent Naphtha	7-13	64742-95-6	300 ppm
Styrene Ethylhexylacrylate	10-30	25153-46-2	N/AV
Xylene	5-10	1330-20-7	100 ppm
Octyltriethoxysilane	5-10	2943-75-1	N/A

SECTION 04: FIRST AID MEASURES

INHALATION: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

SKIN CONTACT: Wash with soap and water and remove contaminated clothing. Wash clothing separately prior to reuse. If irritation persists, get medical attention.

EYE CONTACT: Flush eyes with lukewarm water for at least 15 minutes. Get immediate medical attention thereafter.

INGESTION: If swallowed, **DO NOT** induce vomiting. Give victim a glass of water or milk. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person. Stomach contents should be evacuated quickly in a manner which avoids aspiration.

SECTION 05: FIRE FIGHTING MEASURES

Flashpoint: 0°F (-18°C) Tag Closed Cup

Flammable Limits in air: 2.15-13.0% (by volume)

Auto Ignition Temperature: 869°F (465°C)

Flammability Classification: 3 (NFPA)

Sensitivity to Static Discharge: Yes

EXTINGUISHING MEDIA: Use carbon dioxide or dry chemical media for small fires. Use alcohol-type or all purpose foam for large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire exposed containers. Use water spray to disperse the vapours. Re-ignition is possible. Use self-contained breathing apparatus and protective clothing for large fires

UNUSUAL FIRE AND EXPLOSION HAZARDS:

- \$ Vapours may travel to source of ignition and flash back.
- \$ Vapours may settle in low or confined spaces.
- \$ May produce a floating fire hazard.
- \$ Static ignition hazard can result from handling and use.

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL: Stop leak and isolate spill from all ignition sources. Contain/absorb spilled product with sand or earth. Do not use combustible materials such as sawdust. Avoid contact with skin, eyes, and do not breathe vapours. Avoid all discharge into storm sewer and water ways. Dispose of clean up materials as hazardous waste in accordance with all state and federal laws.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: Ground containers when transferring to sprayers. Keep containers closed when not using. Keep containers out of direct sunlight. Once product is used, leave container lids off to allow all solvent to evaporate.

STORAGE NEEDS: Store in a cool dry area out of direct sunlight and away from all sources of ignition. Open pails containing product must be sealed prior to storing. DO NOT store full or part pails in direct sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

GLOVES: Neoprene or natural rubber gloves are required for protection of hands.

RESPIRATORY/TYPE: Concentrations in air determine the level of respiratory protection needed. Use only NIOSH certified equipment. A half mask air purifying respirator with organic vapour cartridge is recommended.

EYE/TYPE: Splash proof chemical goggles are recommended.

FOOTWEAR/TYPE: Solvent resistant safety shoes/boots.

CLOTHING/TYPE: Standard coveralls. Always remove any contaminated clothing and wash before reuse.

Storage areas for this product must be ignition source free and moderate in temperature. No product containers should be stored in direct sunlight. A portable eye wash station is recommended at the job where this product is being applied.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colourless low viscosity liquid	Boiling Point: 133°F (56°C)
Odour: Sweet pungent	Freezing Point: -141°F (-96°C)
Odour Threshold: 62 ppm	Solubility in Water: 36%
Vapour Pressure (mmHg): 181 @ 68°F (20°C)	Specific Gravity : 0.945
Vapour Density: 2.0 (air = 1.0)	Percent Solids: 28%
Evaporation Rate: 14.4 (Butyl Acetate = 1)	PH: Not applicable

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Avoid heat, sparks, open flame.

COMPATIBLE WITH OTHER SUBSTANCES: Avoid contact with strong oxidizing agents as well as chronic anhydride, chromyl alcohol, hexachloromelanine, permonosulphuric acid, potassium tertbutoxide and trioglycol.

COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, smoke.

HAZARDOUS POLYMERIZATION: Will not occur.



MSDS-404
January 2009

MATERIAL SAFETY DATA SHEET

Page 4

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL

ACETONE OSHA STEL - 1000 ppm

LC50 - 50,000mg/m³ (Rat - Inhalation)

LD50 - 20,000mg/kg (Rabbit-Dermal)

- 5,800mg/kg (Rat - Oral)

XYLENE

LD50 - 4,300mg/kg (Rat - Oral)

LC50 - 5,000-6,700 ppm (Rat - Inhalation)

LD50 - >2,000gm/kg (Dermal - Rabbit)

CARCINOGENICITY OF MATERIAL: N/A

REPRODUCTIVE EFFECTS: N/A

IRRITANCY OF MATERIAL: N/A

SENSITIZING CAPABILITY OF MATERIAL: N/A

SECTION 12: ECOLOGICAL CONSIDERATION

ECOLOGICAL INFORMATION: This product is not expected to persist in the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Empty containers of this product that are dry (no solvent) can be disposed of as normal garbage. Product in the liquid state is a hazardous material and must be disposed as in accordance with all Federal and State legislation. Do not allow product to enter sewers, streams, or lakes.

SECTION 14: TRANSPORTATION INFORMATION

FLAMMABLE DANGEROUS GOODS: Stable. Hazardous polymerization will not occur under normal conditions.

UN NUMBER - 1139

TDG CLASSIFICATION: Class 3

PACKING GROUP - II

SPECIAL SHIPPING INSTRUCTIONS: LIMITED QUANTITY INDEX - 5L

PASSENGER CARRYING SHIP TRANSPORT - Forbidden

CLASSIFIED POTENTIAL MARINE POLLUTANT.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION: B2, D2B

CPR (CANADA) COMPLIANCE: Meets all requirements.

SECTION 16: OTHER INFORMATION

ACGIH - American Confederation of Governmental Industrial Hygienists

STEL - Short Term Exposure Limited

TWA - Time-Weighted Average

OSHA - Occupational Safety and Health Administration

N/A - Not available