



MATERIAL SAFETY DATA SHEET

STARDEK
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DATE PREPARED: July 23, 2002 Page 1 of 3

SECTION I	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Code:	CP-10
Product Name:	STARDEK CROWN FLEX CP-10 WOOD & CONCRETE PRIMER
Chemical Family:	Epoxy Resin
General Information:	This information applies to the resin component of the two-part kit; handle freshly-mixed resin and hardener as recommended for the hardener. After curing, the product is not hazardous

SECTION II	COMPOSITION / INFORMATION ON INGREDIENTS					
	Hazardous Constituents		Weight	ACGIH	OSHA	Other
Constituent	Abbr.	CAS No.	percent	TLV	PEL	Limits
Alkyl glycidyl ether		68609972	79-90	n/e	n/e	n/e
Bisphenol A diglycidyl Ether resin	DGEB PA	25068386	10-30	n/e	n/e	n/e

“TLV” means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) as established by the American Conference of Governmental Industrial Hygienists. “STEL” indicates a short-term exposure limit. “PEL” indicated the OSHA Permissible Exposure Lime. “n/e” indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

SECTION III HAZARDOUS IDENTIFICATION

Emergency Overview

Appearance, physical form, odor: clear liquid with little odor.
Eye and skin irritant. Potential skin sensitizer. Avoid contact with eyes. Avoid prolonged or repeated skin contact. Do not take internally. Wash thoroughly after handling.

Potential Health Effects

Primary routes of exposure: Skin contact

Symptoms of acute exposure: **Skin:**Moderate irritant. contact at elevated temperatures can cause thermal burns. May cause skin sensitizing (rashes, hives). **Eyes:**Moderate irritant. Contact at elevated temperatures can cause thermal burns. **Inhalation:** The low vapor pressure of the resin makes inhalation unlikely in normal use. **Ingestion:** Acute oral toxicity is low. May cause gastric distress. **Effects of chronic overexposure:** Prolonged or repeated skin contact may cause sensitization, with itching, swelling, or rashes on later exposure. **Medical conditions which may be aggravated by exposure:** Preexisting eye and skin disorders. Development of preexisting skin or lung allergy symptoms may increase.

Carcinogenicity: OSHA regulated: No ACGIH: No National Toxicology Program: No International Agency for Research on Cancer: No Cancer-suspect Constituent(s): None

Other effects:
See section 11

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SECTION IV FIRST AID MEASURES

First Aid for Eyes: Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention. **First Aid for Skin:** Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with soap and warm water. Consult physician if irritation develops. **First Aid for Inhalation:** Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist. **First aid for Ingestion:** DO NOT induce vomiting. Give two glasses of water to dilute if patient is conscious. Get medical attention. **Note to Physician:** In general, emesis induction is unnecessary in high viscosity, low volatility products, e.g., neat epoxy resins.

SECTION V FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide, dry chemical, foam

Flash Point (F): >400 **Method:** PMCC **Explosive limits in air-lower:** n/d **Upper:** n/d

Special firefighting procedures: Material will not burn unless preheated. Do not enter confined space without full bunker gear. Firefighters should wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water. **Unusual fire and explosion hazards:** Heating above 300 deg. F in the presence of air may cause slow oxidative decomposition and above 500 deg. F may cause polymerization. **Hazardous products of combustion:** When heated to decomposition it emits fumes of Cl, carbon monoxide, other fumes and vapors varying in composition and toxicity.

SECTION VI ACCIDENTAL RELEASE MEASURES

Spill Control: Avoid personal contact. Eliminate ignition sources. Ventilate area. **Containment:** Dike, contain and absorb with clay, sand or other suitable material. **Cleanup:** For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Flush area with water to remove trace residue. **Special procedures:** Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

SECTION VII HANDLING AND STORAGE

Handling precautions: Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles. Handle mixed resin and hardener in accordance with the potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products (see section 10) during welding/flame cutting operations and to protect against nuisance dust during sanding/grinding of cured product. **Storage precautions:** Store in a cool, dry area away from high temperatures and flames.

SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation: Local exhaust ventilation is preferred although good general mechanical ventilation is usually adequate for most industrial applications. Local exhaust is recommended for confined areas. **Other engineering controls:** Have emergency shower and eye wash available.

Personal Protective Equipment

Eye and face protection: Safety glasses with side shields. **Skin protection:** Chemical-resistant gloves and other gear as required to prevent skin contact.

Respiratory protection: None required at normal handling temperatures and conditions. Use NIOSH approved organic vapor cartridges for uncured resin and dust/particle respirators during grinding/sanding operations of cured resin as exposure levels dictate.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:	1.1	Boiling point (F):	>500
Melting point:	n/d	Vapor Density (air-1):	>1
Vapor pressure(mmHg):	<0.1 at 68F	Evaporation rate (butyl acetate=1)	<<1
VOC (grams/liter):	0	Solubility in water:	Negligible
Percent Volatile Volume	0	pH (5% solution or slurry in water):	Neutral
Percent solids by weight:	0		0

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SECTION X STABILITY AND REACTIVITY

Acute oral effects:

LD50 (RAT): 11,400 MG/KG
Oral LD50 (mouse) = 15.6 g/kg

Acute dermal effects:

LD50 (rabbit): >20 ml/kg

Acute inhalation effects:

LC50 (rat): No deaths in saturate in 8 hours

Eye irritation:

No data available.

Subchronic effects: No data available.

Chronic effects: 2-year bioassays in mice exposed by the dormal route to EPON 828, DGEBPA or other commercial resins yielded limited evidence of weak carcinogenicity. The authors conclude that the renal tumor evidenced with EPON 828 "was" of no biological significance" and that the resin "is not a systemic carcinogen when applied to the dorsal skin of CFI mice."

Carcinogenicity, teratogenicity, and mutagenicity:

Both the resin and the diglycidyl ether of bisphenol A (a component of this product) have proved to be inactive when tested by in Vivo mutagenicity assays. Both have shown activity by In Vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured red liver cells.

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat, 4 hours)
Alkyl glydicyl ether	>19.2 g/kg	>4.5 g/kg	n/d
Bisphenol a diglycidyl resin	30 g/kg	>20 ml/kg	no deaths

SECTION XI ECOLOGICAL INFORMATION

Ecotoxicity: No data available **Mobility and persistence:** No data available. **Environmental fate:** No data available.

SECTION XII TRANSPORT INFORMATION

U.S. Federal Regulations

TSCA:

All ingredients of this product are listed, or are exempt from listing on the TSCA inventory.

The following RCRA code(s) applies to this material if it becomes waste: None

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical*	CERCLA RQ (lbs)	TSCA 12B Exp Notification
Alkyl glycidyl ether	No	No	No	Required
Bisphenol A diglycidyl ether resin	No	No	No	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substances list.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. Consult the appropriate regulations for specific requirements.

Classification of this material for SARA Section 312 Hazardous materials inventory reporting:

Immediate health hazard Delayed health hazard

Canadian regulations

WHMIS hazard class(es): D2B

All components of this products are on this product are on the Domestic Substances List.

SECTION XIII OTHER INFORMATION

Hazardous Materials Information System (HMIS) ratings:

Health: 2 Flammability: 1 Reactivity: 1

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