

# MATERIAL SAFETY DATA SHEET

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## **SECTION I - PRODUCT INFORMATION:**

PRODUCT IDENTIFIER: **TOTAL SEAL/TOTAL SEAL (HS)**  
MANUFACTURER: **SUPERIOR PRODUCTS INT'L II, INC.**  
ADDRESS: **10835 W. 78th St., Shawnee, KS 66214**

PRODUCT USE: **Coat and seal concrete and any masonry surfaces**  
EMERGENCY TELEPHONE NUMBER: **800-424-9300; 202/483-7616**

## **SECTION II - HAZARDOUS INGREDIENTS:**

<u>HAZ. INGREDIENTS</u>	<u>%</u>	<u>CAS/PIN</u>	<u>LD<sub>50</sub>(Species/Route)</u>	<u>LC<sub>50</sub> (Species)</u>
xylene	10-30	1330-20-7	2.5-10mL/kg (oral, rat)	29 g/m <sup>3</sup> , 4h (rat)
methylisobutylketone	10-30	108-1-1	1600 mg/kg (oral, guinea pig) 2080 mg/kg (oral, rat)	23.3 g/m <sup>3</sup> (mouse)
cyclohexanone	0.5-1.5	108-94-1	1535 mg/kg (oral, rat) 1400 mg/kg (oral, mouse)	
modified polyamide resin	5-10	not assigned	NAV	NAV
epoxy resin	10-30	25036-25-3	10-30 g/kg (oral, various) 20 g/kg (dermal, rabbit)	NAV

## **SECTION III - HAZARD IDENTIFICATION:**

The product is a flammable, solvent-based epoxy and should be treated according to all known safety precautions. Refer to Section VII for Storage and Handling recommendations, Section VIII for Personal Protection, Section XIV for transport.

## **SECTION IV - FIRST AID MEASURES:**

**INHALATION:** Remove to fresh air. Give oxygen if required. Seek medical help.

**EYES:** Flush w/water for at least 15 minutes; see physician.

**SKIN:** Remove contaminated clothing; wash affected areas w/mild soap & water.

**INGESTION:** Do not induce vomiting. Give 1-2 glasses milk or water. Seek medical attention according to amount of product ingested.

## **SECTION V - FIREFIGHTING MEASURES:**

**CONDITIONS OF FLAMMABILITY:** Application to large surfaces, spraying, exposure to sparks or open flame

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide & nitrogen oxides, irritant fume of epoxy and polyamide resins

**AUTOIGNITION TEMP.:** 420C. degrees **MINIMUM IGNITION ENERGY:** NAV

**FLASH POINT & METHOD:** 18C. TCC

**SENSITIVITY TO STATIC DISCHARGE?** Yes

**FLAMMABLE LIMITS: (Lower)** 1.0% **(Upper)** 8.0%

**SENSITIVITY TO MECHANICAL IMPACT?** No

**SPECIAL PROCEDURES:** Firefighters should wear full-body protection & SCBA

**MEANS OF EXTINCTION:** Foam, dry chemical, carbon dioxide.

**SECTION VI - ACCIDENTAL RELEASE MEASURES:** Use absorbent to prevent spread. Insure adequate ventilation, use non-sparking tools and protective equipment to collect material.

## **SECTION VII - HANDLING AND STORAGE:**

**Storage Requirements:** Maintain temperature between 5-50C. degrees; keep container closed. Use flammable liquid storage cabinet for inside storage.

**Handling Procedures/Equipment:** Ground all containers; use non-sparking tools.

NAP = Not Applicable

NAV = Not Available

**SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION:**

**PERSONAL PROTECTIVE EQUIPMENT:** Chemical cartridge respirator for organic fumes & mist or aerosol; chemical safety goggles; PVA, nitrile gloves; apron or other skin protection.

**ENGINEERING CONTROLS:** Ventilation required; if spray, use local exhaust vented directly outside. All equipment should be non-sparking/grounded.

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES:**

**PHYSICAL STATE:** Liquid      **SOLUBILITY IN WATER:** Slight

**APPEARANCE AND ODOR:** Opaque; solvent odor

**FREEZING POINT:** NAP      **BOILING POINT:** >116C. deg.      **pH:** NAP

**SPECIFIC GRAVITY:** 1.31      **ODOR THRESHOLD:** @ 1ppm

**COEFF. WATER/OIL:** NAV      **EVAPORATION RATE:** slow%      **VOLATILES:** @35

**VAPOUR DENSITY (Air=1):** 3.4      **VAPOUR PRESSURE:** <6mmHg@20C. deg.

**SECTION X - STABILITY AND REACTIVITY:**

**CONDITIONS OF REACTIVITY:** Mixing w/resin catalysts to speed drying reaction

**CHEMICAL INCOMPATIBILITY:** Strong acids, bases, oxidizing agents, zinc

**CONDITIONS OF INSTABILITY:** Stable

**HAZARDOUS DECOMPOSITION PRODUCTS:** No      **CORROSIVE?** No

**SECTION VI - TOXICOLOGICAL PROPERTIES:**

**ROUTES OF ENTRY:**SKIN CONTACT **X** EYE CONTACT **X** INHALATION **X**  
INGESTION **X** SYNERGISTIC PRODUCTS **Cigarette smoke**

**EXPOSURE LIMITS:** xylene 435 mg/m3 (ACGIH); Methyl isobutyl ketone 205 mg/m3 (ACGIH); cyclohexanone 100 mg/m3 (ACGIH)

**EFFECTS OF ACUTE EXPOSURE:** Eye/nose/respiratory irritation, intoxication, contact dermatitis, loss of appetite, headache, dizziness, fatigue

**EFFECTS OF CHRONIC EXPOSURE:** Liver, lung & kidney damage

**MUTAGENICITY:** Some evidence      **TERATOGENICITY:** Yes

**CARCINOGENICITY:** May contain trace of epichlorohydrin, confirmed IARC carcinogen

**IRRITANCY:** Skin irritation, skin drying, eye irritation

**SENSITIZATION:** Yes      **REPRODUCTIVE TOXICITY:** Some evidence

**SECTION XII - ENVIRONMENTAL INFORMATION:**

Air: 3.48 lbs./gallon; 420 grams/liter V.O.C. (Total Seal HS: 330 grams/liter)  
Water: Insoluble in water

Soil: Lead- and chromate-free, not hazardous under RCRA 40CFR

**SECTION XIII - WASTE DISPOSAL:**

Allow product to dry; designated landfill for dry waste. Approved controlled incineration. Check local government regulations.

**SECTION XIV - TRANSPORT INFORMATION:**

Product is considered hazardous material, to be handled according to Class 3//UN1263//P.G. II guidelines.

**SECTION XV - REGULATORY INFORMATION:**

No listed materials under Superfund Amendments & Reauthorization Act of 1988 (SARA) 302, 304, 311, 312, 313: MIBK (CAS 108-10-1), Xylene (CAS 1330-20-7)

**SECTION XVI - OTHER INFORMATION:** NAV

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**PREPARED BY:** J. Pritchett, Superior Products Int'l II, Inc. **DATE:** 04/24/06