

# MATERIAL SAFETY DATA SHEET

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

PRODUCT IDENTIFIER: **TOTAL SEAL UHS F90**

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**

CHEMICAL TYPE: **Bisphenol-F Type Epoxy**

EMERGENCY TELEPHONE NUMBER: **800-424-9300; 202/483-7616**

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

<u>HAZ. INGREDIENTS</u>	<u>%</u>	<u>CAS/PIN</u>	<u>TLV</u>	<u>PEL</u>
N-Methyl	6.7%	0000872-50-4	50.00	50.00

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

The product is a combustible, solvent-based epoxy and should be treated according to all known safety precautions; however, due to its high-solids content, it does not fall under the normal hazardous codes. 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:** Non-flammable

**CONDITIONS TO AVOID:** None      **MINIMUM IGNITION ENERGY:** NAV

**FLASH POINT & METHOD:** NAP      **REACTED SBW:** 94%      **SBV:** 90%

**SENSITIVITY TO STATIC DISCHARGE?** No

**FLAMMABLE LIMITS: (Lower)** 1.3%      **(Upper)** 9.5%

**SENSITIVITY TO MECHANICAL IMPACT?** NAP

**FLASHPOINT:** 199 degrees F., LCC      **AUTOIGNITION TEMP:** >518deg. F.

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

**MEANS OF EXTINCTION:** Foam, dry chemical, carbon dioxide; water fog to cool containers exposed to heat

**SECTION VI - ACCIDENTAL RELEASE MEASURES:** Use absorbant to prevent spread. Insure adequate ventilation, use non-sparking tools and protective equipment to collect material. Absorb with kitty litter or similar agent. Allow product to dry; designated landfill for dry waste; approved controlled incineration; check local government regulations.

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

**Storage Requirements:** Maintain temperature between 5-50C. degrees; keep container closed. .

**Handling Procedures/Equipment:** Ground all containers; use non-sparking tools. Empty container may contain residual liquid and/or vapor and can be dangerous. Do not pressure, cut, weld or expose to heat or ignition sources.

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:** If TLV is exceeded, use mechanical exhaust room ventilation, otherwise use general ventilation; use non-sparking tools.

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

**PHYSICAL STATE:** Liquid, high viscosity **SOLUBILITY IN WATER:** slightly

**APPEARANCE AND ODOR:** grey color, slight amine odor

**FREEZING POINT:** NAP **BOILING POINT:** N/A **pH:** NAP

**SPECIFIC GRAVITY:** 1.53 **ODOR THRESHOLD:** @ 1ppm

**COEFF. WATER/OIL:** NAV **EVAPORATION RATE:** 0.03% **VOLATILES:** @10

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

**SECTION X - STABILITY AND REACTIVITY:**

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

**CHEMICAL INCOMPATIBILITY:** Oxidizing materials

**CONDITIONS OF INSTABILITY:** Stable

**DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS::** In the case of incomplete combustion: fumes, smoke, carbon monoxide, aldehydes

**SECTION XI - 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:**

V.O.C.: .57 lbs./gallon

Water: Slightly soluble 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 not considered hazardous material according to transportation 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:** 11/28/07