



# Material Safety Data Sheet

Updated July 2013

SKM Industries, Inc.

Health 1

Reactivity 0

Flammability 2

Personal Protection B

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

<b>Identity:</b> Nuclear High Purity Marker - White <b>Item No:</b> 78004 <b>Color:</b> WHITE	<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
<b>Another Exclusive Product of:</b> SKM Industries, Inc.	<b>Emergency Telephone Number</b> 800-424-9300 (Chemtrec)
<b>Address (Number, Street, City, State, and ZIP Code)</b> 1012 Underwood Road, PO Box 278	<b>Telephone Number for Information</b> 570-383-3062
Olyphant, PA 18447 USA	<b>Date Prepared</b> July 30, 2013

**Conforms to ASTM D4236:** These markers and the inks contained within have been examined by a certified toxicologist to assure they comply with Federal Hazardous Substance Act (FHSA) and the Labeling of Hazardous Art Materials Act (LHAMA), in accordance with ASTM D-4236.

## SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits	
				Recommended	%
Aromatic Hydrocarbon	64742-95-6	TWA 100 ppm	TWA 100 ppm	No Data	26-36
Titanium Dioxide	13463-67-7	TWA 10mg/m3	TWA 10mg/m3	Nuisance dust	32-42
Rosin Based Resin	68152-57-8	TWA 15mg/m3	TWA 10mg/m3	Nuisance dust	15-25
Xylene	1330-20-7	TWA 100 ppm	TWA 100 ppm	No Data	1-5
1,2,4, Trimethyl-Benzene	95-63-6	TWA 100 ppm	TWA 100 ppm	No Data	1-5
Nuisance dust as free dust only, not as bound in paint or ink.					

## SECTION 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW – White, opaque thin viscosity liquid with aromatic odor. Warning! Combustible liquid and vapor. Keep away from heat, sparks and flames. May cause eye, skin, and respiratory tract irritation. If swallowed, do not induce vomiting. Get immediate medical attention.**

The hi-purity marking pen contains 10 – 13.5 ml of liquid. The liquid contents are only released in a controlled manner when the tip of the pen is pressed. No free liquid is present under normal conditions of use. This product presents only a minimal fire and exposure hazard.

### HEALTH HAZARDS

**INGESTION:** Ingestion of significant amounts is extremely unlikely due to product form. Ingestion of liquid contents may cause vomiting.

**EYES:** Contact with the liquid contents may be mildly irritating to eyes. May cause redness and tearing.

**SKIN:** Prolonged and/or repeated contact with the liquid contents may produce mild irritation.

INHALATION: Overexposure is very unlikely due to product form. High concentrations may cause nasal and respiratory conditions. Intentional abuse may be harmful or fatal.

---

#### **SECTION 4. FIRST AID MEASURES**

---

INGESTION: Ingestion of significant amounts is extremely unlikely due to product form. DO NOT induce vomiting. Call physician.

EYE CONTACT: Flush thoroughly with water. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. If irritation develops and persists, get medical attention.

INHALATION: Inhalation overexposure is very unlikely due to product form. If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

---

#### **SECTION 5. FIRE FIGHTING MEASURES**

---

FLASH POINT: 108°F (TCC) ASTM D56 Note: Minimum

FLAMMABLE LIMITS: LEL 0.9 UEL 6.0 @ 77°F Note: Approximate

GENERAL HAZARD: Combustible Liquid, can form combustible mixtures at temperatures at or above flashpoint.

EXTINGUISHING MEDIA: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Use foam, dry chemical or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boilover.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE/EXPLOSION HAZARDS: The liquid content of the pen is a combustible liquid; however, the pen contains a small amount of the liquid, and the contents are released only when pressure is applied to the tip.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: No Unusual.

---

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

---

SPILL RESPONSE: Large spills of this product are unlikely due to product form. If marking pen leaks, wipe up any free liquid, and place the pen and waste in an appropriate container for disposal. In storage where large numbers of pens may be damaged, eliminate all sources of ignition, ventilate area and collect the pens into a container for disposal. Collect any released liquid with an inert absorbent and place in a container for disposal.

---

#### **SECTION 7. HANDLING AND STORAGE**

---

HANDLING: Keep product away from open flame. Keep away from children. Replace cap on pen when not in use. Avoid contact with eyes. Avoid prolonged contact with skin.

STORAGE: Store away from heat and flame.

---

#### **SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION**

---

EYE PROTECTION: None should be needed for normal use. Avoid eye contact.

SKIN PROTECTION: None should be needed for normal use. Avoid repeated or prolonged contact with skin.

Wear impervious gloves if needed to prevent possible skin irritation.

RESPIRATORY PROTECTION: None should be needed for normal use.

VENTILATION: No special ventilation is normally required.

---

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

---

BOILING POINT: 318°F - 338°F

SOLUBILITY IN WATER: 0.02 at 77°F Calculated

VAPOR PRESSURE: 2.09 at 68°F Approx.

DENSITY: 7.3 lbs/gal at 60°F

SPECIFIC GRAVITY: 0.87 @ 60°F

VISCOSITY OF LIQUID: 0.9 at 77°F Approx.

EVAPORATION RATE: 0.3

FREEZING/MELTING POINT: 7°F

---

#### **SECTION 10. STABILITY AND REACTIVITY**

---

STABILITY: Stable

INCOMPATIBILITY: Nitric acid, sulfuric acid, strong oxidizing agents. Avoid heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

---

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

---

Please refer to Section 3 for available information on potential health effects.

---

#### **SECTION 12. ECOLOGICAL INFORMATION**

---

No data is currently available.

---

### SECTION 13. DISPOSAL CONSIDERATIONS

---

WASTE DISPOSAL METHOD: Discard empty pen in trash. Dispose in accordance with federal, state and local regulations.

---

### SECTION 14. TRANSPORT INFORMATION

---

DOMESTIC HIGHWAY (Containers < 1 Quart are ORM-D)

PROPER SHIPPING NAME: Ink/Paint

HAZARD CLASS/SUBSIDIARY HAZARD: 3

UN/NA NO. UN1263

PACKING GROUP: III

LABEL REQUIRED: Combustible Liquid

DOMESTIC AIR SHIPMENTS (PENS)

PROPER SHIPPING NAME: Consumer Commodity

HAZARD CLASS/SUBSIDIARY HAZARD: 9

UN/NA NO. I.D. 8000

PACKING GROUP: None

LABEL REQUIRED: Class 9

---

### SECTION 15. REGULATORY INFORMATION

---

#### U.S. Federal Regulations

**TSCA:** Ingredients in this product are listed on the TSCA inventory as a UVCB (Unknown, Variable Composition or Biological) Chemical at CAS Registry Number 64742-95-6.

Clean Water Act/Oil Pollution Act:

Ingredients in this product are classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990.

**CERCLA:** Ingredients in this product as sold are derived from a fraction of crude oil and are excluded from spill reporting requirements by CERCLA Section 101 (14) (F).

#### SARA Title III:

Sec. 302/304: None

Sec. 311/312: Delayed Health, Fire

Sec 313: 1,2,4-Trimethylbenzene 95-63-6 32.0%

Xylene 1330-20-7 3.0%

Cumene 98-82-8 1.5%

**California Prop 65:** This product contains the following chemicals known to the State of California to cause cancer: Ethylbenzene

**Canada** This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

**WHMIS Classification:** Not Controlled.

**NSNR Status (New Substance)** All ingredients in the product are listed, as required, on Canada's Domestic

**Notifications Regulations:** Substances List (DSL).

**NPRI Substances (National**

**Pollutant Release Inventory):** Xylene, 1,2,4-Trimethylbenzene

**Risk Phrases:** None

**Safety Phrases:** S2: Keep out of reach of children.

---

### SECTION 16. OTHER INFORMATION

---

HMIS and NFPA Ratings: 1 (Health), 2 (Flammability), 0 (Reactivity), B (Personal Protection) (4=extreme, 3=high, 2=moderate, 1=slight, 0=least) (B=gloves & safety glasses).

This information provided in the Material Safety Data Sheet has been compiled from our experience and data with similar commercially available materials and is believed to be accurate. No guarantee of accuracy is made. It is the user's responsibility to determine the suitability of this information for this information for the adoption of necessary safety precautions and disposal procedures. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT.