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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** Insta Mark Refill Ink  
**COLORS:** All dye based colors (red, blue, green, purple)

**DISTRIBUTOR:** VRS MARKING, INC.  
**ADDRESS:** 567 Camino Mercado Unit A  
Arroyo Grande, CA 93420

**EMERGENCY PHONE:** 800-688-4005 - VEOLIA  
**OTHER CALLS:** 805-481-9787  
**FAX PHONE:** 805-474-1238

**PREPARED BY:** Keith Werwa

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Ingredient</u>	<u>CAS NO.</u>	<u>% VOL</u>	<u>SARA 313 Reportable</u>	<u>Exposure Limit ACGIH-TLV</u>	<u>Exposure Limit OSHA PEL</u>
Cellosolve Solvent	110-80-5	15-25	Yes	5 ppm	200 ppm
Ethyl Alcohol	64-17-5	10-20		1000 ppm	1000 ppm
Diacetone Alcohol	123-42-2	20-30		50 ppm	50 ppm
Methyl Carbitol	111-77-3	5-10	Yes	None Est	None Est
Methyl Cellosolve	109-86-4	15-25	Yes	5 ppm	25 ppm

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**SECTION 3: HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW:** Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**ROUTES OF ENTRY:** Dermal contact. Eye contact. Inhalation. Ingestion.

**POTENTIAL ACCUTE HEALTH EFFECTS**

**EYES:** Irritation to eyes

**SKIN:** Irritation to skin

**INGESTION:** May cause nausea and or vomiting

**INHALATION:** May be toxic by inhalation. Irritation to the respiratory system.

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** Affected individual should remove contact lens, if present. In case of contact with eyes, rinse immediately with plenty of water or saline solution. Get medical attention if irritation occurs.

**SKIN:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation occurs.

**INGESTION:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately

**INHALATION:** If inhaled, remove to fresh air. Get medical attention if symptoms appear. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**FLAMMABLE LIMITS IN AIR, UPPER:** 13.35  
(% BY VOLUME) **LOWER:** 2.15

**FLASH POINT:** 88 F  
**METHOD USED:** Closed cup

**AUTOIGNITION TEMPERATURE:** 545 F

**HMIS HAZARD CLASSIFICATION**

HEALTH: 2                      FLAMMABILITY: 3                      REACTIVITY: 0  
PROTECTION: B

**EXTINGUISHING MEDIA:** Carbon dioxide. Dry chemical. Alcohol Foam. Water spray.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

**SECTION 5 NOTES:** Avoid heat, sparks and open flame. Slightly flammable to flammable in presence of heat. Use an extinguishing agent suitable for surrounding fires .

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Remove sources of ignition. Ventilate.

**ENVIRONMENTAL PRECAUTIONS:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**METHODS FOR CLEANING UP:**

Small spill and leak: Absorb with an inert material and place in an appropriate waste disposal container.

Large spill and leak: Contain and cover spill with an absorbent material. Collect and dispose in chemical waste drum. Use appropriate containment to avoid environmental contamination. Place spilled material in an appropriate container for disposal.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.

**STORAGE:** Keep container tightly closed. Keep container in a cool, well ventilated area.

**STORAGE TEMPERATURE:** 40-80 F

**SHELF LIFE:**

Dye: 12 months from date of manufacture

Pigment: 9 months from date of manufacture

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location

**PERSONAL PROTECTION:**

**RESPIRATORY PROTECTION:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**EYE PROTECTION:** Safety eyewear complying with an approved standard should be use when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**SKIN PROTECTION:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**PERSONAL PROTECTION IN CASE OF LARGE SPILL:** Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**EXPOSURE GUIDELINES:** See section 2

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL STATE AND APPEARANCE:** Liquid

**ODOR:** Mild

**BOILING POINT:** 292 F

**MELTING POINT:** -130 F

**VAPOR PRESSURE (mmHg):** 6

**VAPOR DENSITY (AIR = 1):** 2.0

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** .9348

**REACTIVITY IN WATER:** None

**SOLUBILITY IN WATER:** Insoluble

**VOLATILE ORGANIC COMPOUNDS:** 47.96 grams/liter

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#### **SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Heat, sparks and open flame

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Burning may produce CO and CO<sub>2</sub>

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** None

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#### **SECTION 11: TOXICOLOGICAL INFORMATION**

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**CELLOSOLVE SOLVENT TOXICOLOGICAL INFORMATION:** Oral rat LD<sub>50</sub>: 2125 mg/kg; inhalation rat LC<sub>50</sub>: 2000 ppm/7H; irritation eye rabbit, standard Draize: 50 mg moderate; skin rabbit, standard Draize: 500 mg open mild; investigated as a tumorigen, mutagen, reproductive effector. In laboratory animals, this compound has caused both birth defects and damage to the reproductive system. Exposure to this compound has also caused decreased sperm counts in humans.

**ETHYL ALCOHOL TOXICOLOGICAL INFORMATION:** Oral rat LD<sub>50</sub>: 5800mg/kg; inhalation rat LC<sub>50</sub>: 16000 mg/l

**METHYL CELLOSOLVE TOXICOLOGICAL INFORMATION:**

Oral rat LD<sub>50</sub>: 4.9g/kg; inhalation rat LC<sub>50</sub>: 1500 ppm/7H; skin rabbit LD<sub>50</sub>: 2.4 g/kg.

**DIACETONE ALCOHOL TOXICOLOGICAL INFORMATION:** Oral rat LD<sub>50</sub>> 2000mg/kg; inhalation rat LC<sub>50</sub> greater than near saturated vapour concentration/ 1H, dermal rabbit LD<sub>50</sub>> 2000mg/kg

**METHYL CARBITOL TOXICOLOGICAL INFORMATION:** Oral rat LD<sub>50</sub>: 2370 mg/kg; inhalation rat LC<sub>50</sub>: 1500 ppm/7H; skin rabbit LD<sub>50</sub>: 1280 mg/kg.

**Effects of chronic exposure:** Skin and eye irritant. Injury to liver and kidneys.

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#### **SECTION 12: ECOLOGICAL INFORMATION**

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##### **ENVIRONMENTAL TOXICITY**

##### **CELLOSOLVE SOLVENT:**

The LC<sub>50</sub>/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

##### **ETHYL ALCOHOL:**

Fish:Fathead Minnow 96 hr. LC 50: 15300 mg/l

##### **METHYL CELLOSOLVE:**

Rainbow Trout (*Salmo gairdneri*) 96 hr. LC 50: = 16000 mg/l (nominal, static)

Bluegill 96 hr. LC 50: > 10000 mg/l (nominal, static)

Daphnia magna 24 hr LC<sub>50</sub>: > 10000 mg/l (nominal, static)

Brine Shrimp 24 hr LC<sub>50</sub>: > 10000 mg/l (nominal, static)

##### **DIACETONE ALCOHOL:**

Fish: LC/EC/IC<sub>50</sub> > 100 mg/l

Aquatic Invertebrates: LC/EC/IC<sub>50</sub> > 1000 mg/l

Aquatic Plants: LC/EC/IC<sub>50</sub> > 1000 mg/l

##### **METHYL CARBITOL:**

The LC<sub>50</sub>/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. The user of this material has the responsibility to dispose of container and unused contents in accordance with federal, state and local requirements.

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**SECTION 14: TRANSPORT INFORMATION**

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Refer to the following when using the below information and reshipping Inks and Thinners:

**FLASH POINT 73 – 149 (HAZARDOUS BY GROUND IN 5 GALLON CONTAINER)  
FLASHPOINT UNDER 73 (HAZARDOUS BY GROUND IN QUART OR LARGER CONTAINER)  
AND FLASHPOINT 149 OR UNDER (HAZARDOUS BY AIR IN ANY UNIT OF MEASURE)**

If size deems shipment hazardous, below markings are required

**U.S. DEPARTMENT OF TRANSPORTATION (LAND, D.O.T.)**

**PROPER SHIPPING NAME:** Printing Ink  
**HAZARD CLASS:** 3  
**ID NUMBER:** 1210  
**PACKING GROUP:** III

**WATER TRANSPORTATION (WATER, I.M.O.)**

**PROPER SHIPPING NAME:** Combustible Liquid  
**HAZARD CLASS:** 3  
**ID NUMBER:** 1993  
**PACKING GROUP:** III

**AIR TRANSPORTATION (AIR, I.C.A.O.)**

**PROPER SHIPPING NAME:** Printing Ink  
**HAZARD CLASS:** 3  
**ID NUMBER:** 1210  
**PACKING GROUP:** III

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS:**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):**

Cellosolve Solvent	110-80-5
Ethyl Alcohol	64-17-5
Diacetone Alcohol	123-42-2
Methyl Carbitol	111-77-3
Methyl Cellosolve	109-86-4

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Contains no chemicals subject to CERCLA

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** No chemicals subject to SARA 302 Reporting

**311/312 HAZARD CATEGORIES:** "Fire Hazard", "Immediate Accute Health Hazard", "Flammable Liquid"

**313 REPORTABLE INGREDIENTS:**

Cellosolve Solvent is subject to reporting requirements of SARA Title III, Section 313 of the Emergency Planning Community Right to Know Act of 1986 and of 40 CFR 372. This product is in compliance with the EPA TSCA inventory.

Methyl Cellosolve is subject to reporting requirements of SARA Title III, Section 313 of the Emergency Planning Community Right to Know Act of 1986 and of 40 CFR 372. This product is in compliance with the EPA TSCA inventory.

Methyl Carbitol is subject to reporting requirements of SARA Title III, Section 313 of the Emergency Planning Community Right to Know Act of 1986 and of 40 CFR 372. This product is in compliance with the EPA TSCA inventory.

**STATE REGULATIONS:** California Safe Drinking Water Act (Prop 65) Listing: "WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm"

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**SECTION 16: OTHER INFORMATION**

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**OTHER INFORMATION:** The hazards listed on this MSDS are taken from the MSDS for each of the ingredients in this mixture. In most cases, the maximum form of hazard is represented here. The TLV's represent the conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect. It must be remembered that each individual reacts differently and some may experience discomfort while others do not. This MSDS is presented so that each individual will have the information to deal safely with the use of this product. All material's TSCA listed.

**PREPARATION INFORMATION:** Prepared by VRS Marking, Inc.

**DATE PREPARED:** November 1, 2010

This MSDS supercedes all previously dated MSDS for this product.

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