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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT CODES:** SPPEH  
**PRODUCT NAME:** Opticz Invisible Printing Ink  
**COLORS:** UV Activated Blue

**CONTACT:** UltraViolet Distributing  
**ADDRESS:** 100 S. Atkinson Rd. Unit 116-244  
Grayslake, IL 60030

**EMERGENCY PHONE:** 800-688-4005 - VEOLIA  
**OTHER CALLS:** 847-665-1083  
**FAX PHONE:** 847-665-1085

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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>
Isopropyl Alcohol	67-63-0	50-60		400 ppm	400 ppm

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**SECTION 3: HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW:** As noted in the preface to published values adopted by the ACGIH, TLV's represent "conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect. Because of wide variation in individual susceptibility however, a small percentage of workers may experience discomfort from some substances at concentration at or below the threshold limit; a smaller percentage might be affected more seriously by aggravation of a pre-existing condition or by development of occupational illness."

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

**POTENTIAL ACUTE HEALTH EFFECTS**

**EYES:** Irritation to eyes. May cause redness or temporary swelling. Vapors also may irritate eyes.

**SKIN:** May be irritating to sensitive skin

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

**INHALATION:** Moderately irritating to nasal and respiratory tracts. Can cause headache and nausea

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**SECTION 4: FIRST AID MEASURES**

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**INGESTION:** Give two glasses of lukewarm water. Do not induce vomiting without medical advice. Seek medical attention.  
**EYES:** Flush immediately with water for at least 15 minutes. Seek medical attention.  
**SKIN:** Wash with soap and water.  
**INHALATION:** Remove to fresh air.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**FLASH POINT:** 56 F  
**FLAMMABLE LIMITS:** LEL: 4.3 VEL: 19.0  
LEL value reported is lowest listed for any ingredient in mixture.

**EXTINGUISHING MEDIA:** Water fog. Multipurpose foam, Dry chemical, C02

**SPECIAL FIREFIGHTING PROCEDURES:** Fight as volatile liquid fire. Water in ink will stop fire after initial flash. Water on fire may cause frothing.

**AUTOIGNITION TEMPERATURE:** 797 F

**HMS HAZARD CLASSIFICATION**

HEALTH: 1

FLAMMABILITY: 3

REACTIVITY: 0

PROTECTION: A

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**SPILL OR LEAK PROCEDURES:** Secure area and remove all sources of ignition and heat. Prevent additional discharge of material. Ventilate area. Flush and dilute with water; wipe up with rags or other absorbent material. Do not allow spills to enter sewers or water courses. Dispose of waste in accordance with applicable government regulations. Dilute with water and boil to evaporation. Wear goggles, gloves, boots and protective clothing. Wear respirator if necessary.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** Do not ingest. Do not get in eyes. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist.

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

**STORAGE TEMPERATURE:** 40-90 F

**SHELF LIFE:** 12 months from date of manufacture

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

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**EYE PROTECTION:** Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses must not be worn.

**SKIN PROTECTION:** Depending on the conditions of use, protective gloves may be worn for cleanliness.

**RESPIRATORY VENTILATION:** If workplace exposure limits of product or any component is exceeded, NIOSH/JMSHA approved respiratory protection must be used.

**ENGINEERING CONTROLS:** Provide local exhaust or general room ventilation equal to outdoors to minimize exposure to vapors.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL FORM:** Liquid

**ODOR:** Mild

**BOILING POINT (OF):** >200

**VAPOR PRESSURE(=Hg):** 44.0

**VAPOR DENSITY(Air= 1):** approx.1.6

**SOLUBILITY IN WATER:** Complete

**SPECIFIC GRAVITY (H2O=1):** 0.79

**VOC:** 23.71 gms/l

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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 CO2

**HAZARDOUS POLYMERIZATION:** Will not occur

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

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Acute Oral Toxicity:** Low toxicity: LD50 >2000 mg/kg, Rat

**Acute Dermal Toxicity:** Low toxicity: LD50 >2000 mg/kg, Rabbit

**Acute Inhalation Toxicity:** Low toxicity: LC50 >5000 ppm / 1 hours, Rat

High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

**Skin Irritation:** Not irritating to skin.

**Eye Irritation:** Irritating to eyes

**Respiratory Irritation:** Inhalation of vapors or mists may cause irritation to the respiratory system.

**Sensitisation:** Not a skin sensitiser.

**Repeated Dose Toxicity:** Kidney: caused kidney effects in male rats which are not considered relevant to humans

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Fish** - Low toxicity: LC/EC/IC50 > 100 mg/l

**Aquatic Invertebrates** - Low toxicity: LC/EC/IC50 > 1000 mg/l

**Algae** - Expected to have low toxicity: LC/EC/IC50 > 1000 mg/l

**Microrganisms** - Low toxicity: LC/EC/IC50 > 1000 mg/l

**Mobility** - Dissolves in water. If product enters soil, it will be highly mobile and may contaminate groundwater.

**Persistence/degradability** - Readily biodegradable meeting the 10 day window criterion. Oxidises rapidly by photo-chemical reactions in air.

**Bioaccumulation** - Not expected to bioaccumulate significantly.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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Consult Federal, State and Local Regulations for accepted procedures of disposal, and any reporting or notification 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:** II

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

**PROPER SHIPPING NAME:** Printing Ink

**HAZARD CLASS:** 3

**ID NUMBER:** 1210

**PACKING GROUP:** II

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

**PROPER SHIPPING NAME:** Printing Ink

**HAZARD CLASS:** 3

**ID NUMBER:** 1210

**PACKING GROUP:** II

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

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

Isopropyl Alcohol CAS 67-63-0

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

**311/312 HAZARD CATEGORIES:** immediate (acute) health hazard, delayed (chronic) health hazard, fire hazard

**313 REPORTABLE INGREDIENTS:** None

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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 SICI

**DATE PREPARED:** April 14, 2010

This MSDS supersedes all previously dated MSDS for this product.

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