
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODES: GD4 JA
PRODUCT NAME: Opticz Invisible UV 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

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<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>
Ethyl Alcohol	64-17-5	40-50		1000 ppm	1000 ppm
Isopropyl Alcohol	67-63-0	50-60		400 ppm	400 ppm

SECTION 3: HAZARDS IDENTIFICATION

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 ACCUTE 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

SECTION 4: FIRST AID MEASURES

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.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: 19.0
(% BY VOLUME) LOWER: 2.0

FLASH POINT: 56 F
METHOD USED: Closed cup

AUTOIGNITION TEMPERATURE: 545 F

HMS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 3

REACTIVITY: 0

PROTECTION: A

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

RESPIRATOR 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AND APPEARANCE: Liquid

ODOR: Mild alcohol

BOILING POINT: 176.5 F

MELTING POINT: -128 F

VAPOR PRESSURE (mmHg): 33

VAPOR DENSITY (AIR = 1): 1.85

SPECIFIC GRAVITY (H₂O = 1): .785

REACTIVITY IN WATER: None

SOLUBILITY IN WATER: Complete

VOLATILE ORGANIC COMPOUNDS: 52.61 gms/l

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

ETHYL ALCOHOL TOXICOLOGICAL INFORMATION: Oral rat LD50: 5800mg/kg; inhalation rat LC50: 16000 mg/l

ISOPROPYL ALCOHOL TOXICOLOGICAL INFORMATION:

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

Acute Dose Toxicity:

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

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY

ETHYL ALCOHOL:

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

ISOPROPYL ALCOHOL:

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

Microorganisms - 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.

SECTION 13: DISPOSAL CONSIDERATIONS

Consult Federal, State and Local Regulations for accepted procedures of disposal, and any reporting or notification requirements.

SECTION 14: TRANSPORT INFORMATION

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: Combustible Liquid

HAZARD CLASS: 3

ID NUMBER: 1993

PACKING GROUP: II

AIR TRANSPORTATION (AIR, I.C.A.O.)
PROPER SHIPPING NAME: Printing Ink
HAZARD CLASS: 3
ID NUMBER: 1210
PACKING GROUP: II

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT):

Ethyl Alcohol	64-17-5
Isopropyl Alcohol	67-63-0

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

SECTION 16: OTHER INFORMATION

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
SUPERCEDES ALL PREVIOUSLY DATED MSDS

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