TAIYO AMERICA, INC.

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 09/23/2010

PRODUCT NUMBER

IJR-4000 MW300

HMIS CODES

Health	3
Flammability	1
Reactivity	1
PPE	X

PRODUCT NAME

IJR-4000 MW300

PRODUCT DESCRIPTION

Ink Jet Marking Ink

MANUFACTURER

Taiyo Ink Mfg. Co., (Korea) Ltd.
1058-8, Singil-Dong, Danwon-Gu, Ansan-city
Kyungki-Do Republic of Korea

Manufacturer Phone 82-31-491-9250

DISTRIBUTOR

Taiyo America, Inc.
2675 Antler Drive
Carson City, NV 89701

Distributor Phone 775-885-9959
Contact Name Mr. Phillip Harrison
24 hr. Number 00+1+775-530-3296

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2. COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT / OSHA PEL
09 – 11%	Proprietary	Succinic Anhydride Ester Compound
2 - 4%	Proprietary	Acetophenone Derivative
3 – 5%	Proprietary	Phosphine Oxide Compound
28 – 31%	15625-89-5	Trimethylolpropane Triacrylate
36 - 38	Proprietary	Multifunctional Acrylate

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3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: May cause injury to the eyes with direct product contact.
SKIN: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.
INGESTION: Harmful if swallowed. Prolonged exposure may cause serious damage to health. Chronic effects on kidney, hemo-lympho-reticular system, reproductive system and thyroid were observed in an animal study of the Acetophenone Derivative.

INHALATION: May cause respiratory tract irritation. High vapor concentrations may cause headaches, dizziness and nausea.

SUBCHRONIC/CHRONIC TOXICITY

CHRONIC: Prolonged or repeated contact can result in burning of the skin and sensitization.

CARCINOGENICITY: NTP, IARC, and OSHA sources checked: Not listed.

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4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for 15 minutes. Get medical attention if irritation persists.

SKIN: Wash skin with soap and plenty of water.

INGESTION: Do not induce vomiting. Give milk or water. Get medical attention.

INHALATION: If breathing becomes difficult, remove to fresh air. If symptoms persist, give oxygen and seek medical attention.

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5. FIRE FIGHTING MEASURES

FLASH POINT: >110 C / 230 F

GENERAL HAZARD: Product may contain combustible liquids or various organic resins. If burning, this material may produce hazardous fumes or hazardous decomposition products.

EXTINGUISHING MEDIA: Use carbon dioxide. foam, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion products may be toxic. May produce various carbon oxides and hydrocarbons.

EXPLOSION HAZARDS: Sealed containers may build up pressure and rupture when exposed to high heat (fire).

FIRE FIGHTING PROCEDURES: Remove sealed containers from the vicinity of the fire. Use normal fire fighting procedures for burning combustible liquids.

FIRE FIGHTING EQUIPMENT: Use self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode with appropriate turn-out gear.

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6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb the spilled material with inert material.

WATER SPILL: Contain, minimize dispersion and collect as soon as possible.

LAND SPILL: Prevent from entering drain, sewer, stream or other bodies of water. Transfer absorbent, soil and other contaminated materials to containers for disposal.

SPECIAL PROTECTIVE EQUIPMENT: Protective eyewear, impervious gloves, air purifying respirator recommended.

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7. HANDLING RELEASE MEASURES

HANDLING: Prevent contact with skin, eyes, and clothing. Use only with adequate ventilation.

STORAGE: Store in a cool place in original sealed containers away from sunlight and heat. Stable for three months in low temp. (10 - 20C). Consult the technical data sheet to determine further storage conditions related to warranty period (shelf life).

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general mechanical ventilation recommended.

PERSONAL PROTECTION

EYES and FACE: Wear safety glasses with side shields, goggles or face shield to prevent splashes into the eyes.

SKIN: Prevent skin contact. Wear impervious gloves.

RESPIRATORY: Generally not necessary for adequately ventilated work area.

PROTECTIVE CLOTHING: As necessary to prevent skin contact.

WORK HYGENIC PRACTICES: Wash hands with soap and water after using material. Do not use solvent to remove this material from skin.

OTHER USE PRECAUTIONS: This product contains substances known to cause skin irritation and sensitization. Individuals prone to skin irritations or hypersensitive to chemical substances are recommended not to handle this product. Use PPE to prevent contact with skin!

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL APPEARANCE: Viscous Liquid
COLOR: White
ODOR: Slight Odor
SPECIFIC GRAVITY: 1.14
VOLATILES: 0.00
EVAPORATION RATE: 0
VAPOR DENSITY: N. E.
VOLATILE ORGANIC COMPOUNDS (VOC): 0

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10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: Not under normal use and storage conditions

CONDITIONS TO AVOID: Avoid high temperatures, sunlight and ultraviolet light.

HAZARDOUS DECOMPOSITION: Normal combustion products.

INCOMPATIBLE MATERIALS: Oxidizers, peroxides, strong acids and bases, amines and epoxy curing agents.

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11. TOXICOLOGICAL INFORMATION

No specific toxicological data is available for this product.

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12. ECOLOGICAL INFORMATION

The Acetophenone Derivative is toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Release to the environment should be prevented.

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13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose of in accordance with all Federal, State and Local regulations. Keep out of sewers and waterways.

RCRA/USPA WASTE INFORMATION: Uncured and cured waste material is not RCRA regulated

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14. TRANSPORT INFORMATION

U.S.D.O.T. Not regulated

ADR/RID - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., Class 9, UN3082

ICAO / IATA - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., Class 9, UN3082

IMO / IMDG - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., Class 9, UN3082

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15. REGULATORY INFORMATION

SARA 313:

CAS No.	Name

NONE

TSCA (Toxic Substances Control Act): This product complies with all applicable rules and orders under TSCA

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16. OTHER INFORMATION

SUPPLEMENTAL NOTES: This product contains no environmentally restricted substances as listed in Sony Technical Standard SS-00259.

DISCLAIMER:

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.