



## MATERIAL SAFETY DATA SHEET ( MSDS )

Moorim Chemtech

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME : Moorim Ink Series Color Dye Ink  
 PRODUCT TYPE : COLOR DYE INK FOR HP CARTRIDGE  
 MANUFACTURER : Moorim Chemtech Co., Ltd.  
 ADDRESS : 542-7 Gajwa-dong, Seo-gu, Incheon, Korea (Zip Code 404-250).  
EMERGENCY TELEPHONE NUMBER : +82-32-571-8080 / Fax : +82-32-571-8121.  
 INFORMATION TELEPHONE NUMBER : +82-32-571-8080.  
 REASON FOR MSDS ISSUE : New product.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	WEIGHT %	OSHA PEL	ACGIN TLV
PYRROLIDONE, 2-	616-45-5	5 ~ 15%	Not Listed	Not Listed
GLYCOL SOLVENT	112-34-5	5 ~ 25%	Not Listed	Not Listed
TROMETHANE	77-86-1	0~ 10%	Not Listed	Not Listed
VEHICLE : WATER	7732-18-5	50~80%	Not Listed	Not Listed

Remaining ingredients not considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200

### 3. HAZARDS IDENTIFICATION

#### INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

: None reported or known to exist for the product unless listed here.

#### SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

: Eye/skins may cause irritation.

#### INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

: May cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

#### ACUTE HEALTH RISKS AND SYMPTOMS OF EXPOSURE

: None known or determined for the product.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

: None known or determined for the product.

#### CHRONIC HEALTH HAZARDS

: None known or determined for the product.

### 4. FIRST AID MEASURES

Skin contact : Wash with plenty of soap and water. Do not use organic solvents.

Eye contact : Rinse eyes thoroughly water. In case of eye irritation, seek medical attention.

Inhalation : Remove victim to fresh air.

Swallowed : Do Not induce vomiting. Call a doctor and contact local poison control center immediately.

## **5. FIRE-FIGHTING MEASURES**

FLASH POINT : N/A (Non-flammable water based).

METHOD USED : N/A.

FLAMMABLE LIMITS IN AIR BY VOLUME -LOWER : NA - UPPER : NA.

EXTINGUISHING MEDIA : NA.

SPECIAL FIRE-FIGHTING PROCEDURES : NA.

UNUSUAL FIRE AND EXPLOSION HAZARDS : NA.

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## **6. ACCIDENTAL RELEASE MEASURES**

### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Soak up on paper or other absorbent and scoop into closed containers.

Flush area with plenty of water.

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## **7. HANDLING AND STORAGE**

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Storage temperature : Standard room temperature (68 degree Fahrenheit).

Special sensitivity : Heat, light, moisture.

Precautions : Keep container closed, store away from traffic.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Technical measures / Precautions : No special precautions required.

Respiratory protection : Not necessary.

Ventilation : Mechanical ventilation is acceptable.

Hand protection : Wear protective gloves.

Eye protection : Wear suitable goggles or safety glasses with side shields.

Skin and body protection : Wear overalls and closed footwear.

Further information : Avoid contamination of food, drink, etc. No smoking when handling.

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

Boiling Point : 120° C

Specific Gravity 1.03

Vapor Pressure (mm Hg) : 17.5 mmHg

Melting Point : Not applicable

Vapor Density (NR=1) : Heavier than air

Evaporation rate :Very Slight  
(Butyl Acetate =1 )

Solubility in Water :Complete

Appearance and Odor : Color Solution , mild odor

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## **10. STABILITY AND REACTIVITY**

STABILITY : Stable.

CONDITION TO AVOID : None known.

MATERIALS TO AVOID : Strong oxidizing agents and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS : Thermal decomposition may release oxides of carbon, nitrogen.

HAZARDOUS POLYMERIZATION : None.

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## **11. TOXICOLOGICAL INFORMATION**

No information available.

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## **12. ECOLOGICAL INFORMATION**

No information available.

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## **13. DISPOSAL CONSIDERATIONS**

Waste shall be disposed of in accordance with federal, state, and local environmental control regulations.

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## **14. TRANSPORT INFORMATION**

D.O.T Shipping name : Not regulated.

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## **15. REGULATORY INFORMATION**

All components of the ink used in the products listed on this MSDS are listed on ;

TSCA (Toxic Substance Control Act) Inventory

European (EINECS) Inventory

CDSL (Canadian Domestic Substance List)

OSHA STATUS

INTERNATIONAL EXPORT/IMPORT STATUS : Not determined for every country. Contact Moorim Chemtech for certification if required.

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## **16. OTHER INFORMATION**

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical source. This information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide.

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This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

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