


**MATERIAL SAFETY DATA SHEET ( MSDS )**

Moorim Chemtech

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**TRADE NAME** : Moorim Ink Series Black and Color Dye Ink  
**PRODUCT TYPE** : BLACK AND COLOR DYE INK FOR BROTHER CARTRIDGE  
**MANUFACTURER** : Moorim Chemtech Co., Ltd.  
**ADDRESS** : 542-7 GAJWADONG, SEO-GU, INCHON, KOREA 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 #	WEIGHT %	OSHA PEL	ACGIH TLV
GLYCOL SOLVENT	112-34-5	5-10%	Not Listed	Not Listed
DIETHYLENE GLYCOL	111-46-6	10-20%	Not Listed	Not Listed
GLYCERIN	56-81-5	10-20%	Not Listed	Not Listed
VEHICLE : WATER	7732-18-5	30-50%	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 with 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.

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## **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 FIREFIGHTING 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	1.05
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	: Black 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.

## **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.