

Substance Key: 000BI15B0002

Revision Date: 04/01/2023

Version: 2.2

Section 1 - Product and Company Identification

Product Name: inkjet printer inks
Product Use: Ink-Jet Printing Ink

Company Identification:

MANUFACTURER
 FullColor Intl Technology Limited
 No. 29 fuming Road, Shajiao, Industrial park DongGuan City,Guangdong,P. R. China
sales department: Tel: +86 769 86093099 QC department: +86-769-89790915

Section 2 - Composition, Information on Ingredients

Components (% by weight)

COMPONENTS	PERCENTAGE	CAS#
	/BOTTLE	
Diethylene glycol monobutyl ether	0%-10%	112-34-5
Glycerol	0%-10%	56-81-5
Polyethylene glycol 400	0%-10%	25322-68-3
Urea	0%-10%	57-13-6
Water	50%-70%	(7732-18-5)

Dye component Black, **DY2001**

COMPONENTS	PERCENTAGE	CAS#
	/BOTTLE	
Diethylene glycol	0%-10%	111-46-6
Triethylene glycol monobutyl ether	0%-10%	143-22-6
Glycerol	0%-15%	56-81-5
N-Methyl pyrrolidone	0%-10%	872-50-4
Water	40%-65%	(7732-18-5)

Dye component Cyan, **DY2002**

COMPONENTS	PERCENTAGE	CAS#
	/BOTTLE	
Diethylene glycol	0%-15%	111-46-6
Glycerol	0%-10%	56-81-5
Diethylene glycol monobutyl ether	0%-10%	112-34-5
Isopropanol	0%-10%	67-63-0
Water	60%-85%	(7732-18-5)

Dye component Magenta, **DY2003**

COMPONENTS	PERCENTAGE	CAS#
	/BOTTLE	
Diethylene glycol	0%-15%	111-46-6
Glycerol	0%-10%	56-81-5
Diethylene glycol monobutyl ether	0%-10%	112-34-5
Isopropanol	0%-10%	67-63-0
Water	60%-85%	(7732-18-5)

Dye component Yellow **DY2004**

Chemical family Azo*

Components (Remarks)

*The specific identity for each component not identified by a CAS Registry Number is withheld as a trade secret.

Section 3 - Hazards Identification

Potential Health Effects

THIS PRODUCT CAN BE USED SAFELY WHEN USED AS DIRECTED AND WHEN APPLICABLE SAFETY PRECAUTIONS ARE FOLLOWED.
 PETENTIAL HEALTH EFFECTS FROM PRODUCT

Potential routes of overexposure to this product are skin contact, eye contact and inhalation of vapor.

Ingestion is not expected to be a significant route of exposure for this product under normal use conditions.

There is no toxicity data available for this specific formulation. Any potential hazards are presumed to be due to exposure to the components.

ADDITIONAL HEALTH EFFECTS

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless other noted.

INFORMATION FOR COMPONENTS

Isopropanol and Diethylene glycol monobutyl ether

Eye Contact - May cause eye irritation.

Skin Contact - May cause skin irritation.

Effects of Overexposure - Excessive exposure may cause gastrointestinal disturbances, nausea, headache and vomiting.

Glycerol

Eye Contact - May cause eye irritation. Symptoms of exposure may include eye irritation or burning sensation.

Skin Contact - Prolonged or repeated contact may dry skin and cause irritation. Symptoms of exposure may include drying, cracking or inflammation of skin.

Inhalation - May cause respiratory tract irritation. Symptoms of exposure may include nasal discharge, hoarseness, coughing, chest pain and breathing difficulty.

Ingestion - Essentially non-toxic.

Polyethylene glycol 400

Eye Contact - May cause eye irritation. Symptoms of exposure may include eye irritation or burning sensation.

Skin Contact - Prolonged or repeated contact may dry skin and cause irritation. Symptoms of exposure may include drying, cracking or inflammation of skin.

Inhalation - May cause respiratory tract irritation. Symptoms of exposure may include nasal discharge, hoarseness, coughing, chest pain and breathing difficulty.

Ingestion - Essentially non-toxic.

Carcinogenicity Information

None of the components present this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or other as a carcinogen.

Section 4 - First Aid Measures

First Aid

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes in case of contact. Call a physician.

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.

Ingestion: Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Section 5 - Fire Fighting Measures

Flammable Properties

Flash Point: >93.3 °C (>200 °F)

Method : Closed Cup

Approximate Flammable Limits in Air, % by Volume

LEL : Not available

UEL: Not available

Autoignition Temperature: Not available

Product is a nonflammable water-based solution.

Hazardous combustion products (gases/vapors) produced in fire can include carbon monoxide, carbon dioxide, nitrogen oxides, and smoke.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

This product is not flammable. Use normal firefighting procedures for the area.

Section 6 - Accidental Release Measures

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill.

Spill Clean Up

Soak up with absorbent material.

Section 7 - Handling and Storage

Handling (Personnel)

Avoid contact with eyes, skin, or clothing.

Section 8 - Exposure Controls, Personal Protection

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.

RESPIRATORS

Respirators are not needed for normal use.

PROTECTIVE CLOTHING

If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.

Applicable Exposure Limits and Exposure Data

WATER

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
LD50 (rat, oral) : >90 mL/kg (RTECS)
LC50 (rat, inhalation/4 hr.) : No data available

Glycerol

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
LD50 (rat, oral) : >5.2 g/kg(RTECS)
LC50 (rat, inhalation/4 hr.) : No data available

Polyethylene glycol 400

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
LD50 (rat, oral) : >384000mg/kg(RTECS)
LC50 (rat, inhalation/4 hr.) : No data available

Diethylene glycol monobutyl ether

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
LD50 (rat, oral) : None Established
LC50 (rat, inhalation/4 hr.) : No data available

UREA

PEL (OSHA) : None Established
TLV (ACGIH) : None Established
LD50 (rat, oral) : >14.3g/kg(RTECS)
LC50 (rat, inhalation/4 hr.) : No data available

Section 9 - Physical and Chemical Properties

Physical Data

Form : Liquid
Color : Black
Odor : Slight
Solubility in Water : Miscible
pH : 7-9
Specific Gravity : > 1

Other Information

Flash Point : >93.3 °C (>200 °F)
Method : Closed Cup
Approximate Flammable Limits in Air, % by Volume
LEL : Not Available
UEL : Not Available
Autoignition Temperature : Not Available

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Incompatibilities with Other Materials:

None reasonably foreseeable.

Decomposition:

Decomposition does not occur during normal use.

Polymerization:

Polymerization will not occur.

Section 11 - Toxicological Information

Animal Data

No data available for product.

Section 12 - Ecological Information

Ecotoxicity:

No data available for product.

Physical:

No information available.

Other:

No information available.

Section 13 - Disposal Considerations

Waste Disposal

DO NOT DISCARD INTO ANY SEWERS, INTO ANY BODY OF WATER, OR ON THE GROUND. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local laws and regulations.

Section 14 - Transport Information

(Not meant to be all inclusive)

DOT (Domestic Surface) :	Not regulated
ICAO/IATA (Air) :	Not regulated
IMO/IMDG (Ocean) :	Not regulated

Section 15 - Regulatory Information

U.S. Regulations

Federal Regulations

TSCA Inventory Status –

All components of this product are listed, or exempt from listing, on the TSCA 8(b) chemical inventory.

TSCA Section 12(b) Export Notification –

This product can contain: None

European Union Regulations

EU Inventory Status –

All components of this product are listed, or are exempt from listing, on the EINECS chemical inventory.

Transport Information –

This product is not classified as dangerous within the meaning of transport regulations.

Labeling –

This product does not need to be labeled in accordance with EC-Directive 1999/45/EC.

Section 16 - Additional Information

HMIS® Rating

Health :	1
Flammability :	0
Reactivity :	0

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

MSDS Contact Information:

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Key :

EU	European Union
HMIS®	Hazardous Material Information System (National Paint and Coatings Association)
IEL	Indicative Exposure Limit (EU Directive 2000/39/EC)
LEL or LFL	Lower Explosive Limit or Lower Flammable Limit
NTP	National Toxicology Program (U.S.A.)
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit