

HLRK21-R

Information Sheet Revision 2.0

Substance Key: 000BI15B0002 Revision Date: 10/09/2008

### Section 1 – Product and Company Identification

Product Name: HI-BK21-B

Produdct Use: Ink-Jet Printing Ink

**Company Identification:** 

**MANUFACTURER** 

Ninestar Technology Co., Ltd.

No. 63, Mingzhubei Road, Xiangzhou District

Zhuhai, Guangdong, P. R.

China 519075

Oversea sales department:

**Tel:** +86 756 8539388

Fax: +86 756 8539389

Emergency call: +86 800- 830- 7918 (24 hours hotline)

## **Section 2 - Composition, Information on Ingredients**

#### Components (% by weight)

COMPONENTS	PERCENTAGE/BOTTLE	CAS#
Diethylene glycol	0%-9%	111-46-6
Isopropanol	0%-5%	67-63-0
Glycerol	0%-10%	56-81-5
Diethylene glycol monobutyl ether	0%-9%	112-34-5
urea	0%-10%	57-13-6
Water	60%-85%	7732-18-5

Dye component Black
Chemical family Azo\*

Components (Remarks)

### Section 3 – Hazards Identification

#### **Potential Health Effects**

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

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



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#### 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

#### Diethylene glycol

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.

#### Isopropanol

Eye Contact - Contact with eyes may result in irritation.

Skin Contact - Contact with the skin may result in irritation.

Inhalation - Inhalation may result in respiratory irritation.

Ingestion - Ingestion may result in gastric disturbances.

Chronic Overexposure Effects - Developmental toxicity was seen in the offspring of rats at doses that were maternally toxic.

#### Diethylene glycol monobutyl ether

Eye Contact - Contact with eyes may result in irritation.

Skin Contact - Contact with the skin may result in irritation.

Inhalation - Inhalation may result in respiratory irritation.

Ingestion - Ingestion may result in gastric disturbances.

Chronic Overexposure Effects - Developmental toxicity was seen in the offspring of rats at doses that were maternally toxic.

#### **Glycerol**

Eye Contact - May cause eye irritation.

Skin Contact - May cause skin irritation.



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

#### **UREA**

Eye Contact -Effects on exposure: Irritation can occur upon contact with eyes.

Skin Contact-Repeated or prolonged contact with skin may cause reddening, irritation and inflammation

Inhalation-Mild irritation of the respiratory system may occur upon inhalation.

Ingestion Mild irritation of gastrointestinal tract may occur upon ingestion.

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

Eves: 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**



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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

#### Diethylene glycol

PEL (OSHA): None Established

TLV (ACGIH): None Established

LD50 (rat, oral): >12565mg/kg(RTECS)

LC50 (rat, inhalation/4 hr.): No data available



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#### Isopropanol

PEL (OSHA): None Established

TLV (ACGIH): None Established

LD50 (rat, oral) : >5.47g/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

#### **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

#### **UREA**

PEL (OSHA): None Established

TLV (ACGIH): None Established

LD50 (rat, oral): >14.3g/kg(RTECS)

LC50 (rat, inhalation/4 hr.): None Established

## **Section 9 - Physical and Chemical Properties**

#### **Physical Data**

Form: Liquid

Color: HI-BK21-B

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



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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



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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:**

#### **MANUFACTURER**

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HMIS<sup>®</sup> Hazardous Material Information System (National Paint and Coatings Associ

IEL Indicative Exposure Limit (EU Directive 2000/39/EC)

LEL or 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