Information Sheet Revision 10.0 Page 1 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

1-Identification of the substance/preparation and of the company/undertaking

• 1.1 Product ide	iitiitti		
Product name:	Dye Ink		
Product type/co	ode: BI-BK312-B		
• 1.2 Relevant ide	entified uses of the substance or mixture and uses advised against		
Application of the substance/the preparation: Ink-Jet Printing			
• 1.3 Details of th	e supplier of the safety data sheet		
Postal code:			
• 1.4 Emergency	telephone number		
• Oversea sales d	epartment: Tel: Fax:		
• Emergency Pho	one:		
2-Hazards Id	lentification		
• 2.1 Classification	on of the substance or mixture:		
	on of the substance or mixture: not classified as hazard substance according to the EC Regulation 1272/2008(CLP).		
This product is r			
This product is r • Regulation 1272	not classified as hazard substance according to the EC Regulation 1272/2008(CLP).		
This product is r • Regulation 1272	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication:		
This product is r • Regulation 1272 Hazard classifica • 2.2 Label eleme	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication:		
This product is r • Regulation 1272 Hazard classifica • 2.2 Label eleme	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication:		
This product is r • Regulation 1272 Hazard classifica • 2.2 Label eleme Hazard labelling	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication: ants g pursuant to EC Regulation 1272/2008(CLP) and subsequent amendments and		
This product is r • Regulation 1272 Hazard classifica • 2.2 Label eleme Hazard labelling supplements.	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication: ants g pursuant to EC Regulation 1272/2008(CLP) and subsequent amendments and		
This product is r • Regulation 1272 Hazard classifica • 2.2 Label eleme Hazard labelling supplements. Hazard pictogram	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication: ints g pursuant to EC Regulation 1272/2008(CLP) and subsequent amendments and ms:		
This product is r • Regulation 1272 Hazard classifica • 2.2 Label eleme Hazard labelling supplements. Hazard pictogram Signal words:	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication: ints g pursuant to EC Regulation 1272/2008(CLP) and subsequent amendments and ms: its:		
This product is r • Regulation 1272 Hazard classifica • 2.2 Label eleme Hazard labelling supplements. Hazard pictogram Signal words: Hazard statement	not classified as hazard substance according to the EC Regulation 1272/2008(CLP). 2/2008(CLP) and following amendments and adjustments. ation and indication: ints g pursuant to EC Regulation 1272/2008(CLP) and subsequent amendments and ms: its:		

Information Sheet Revision 10.0 Page 2 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

• 2.3 Other hazards

Information not available.

3-Composition/Information on Ingredients

• 3.1 Substances Information not available.

• 3.2 Mixtures

Containing of the following components. The classification is mainly based on pure substance. The concentration of the substance in the mixture is very lower than the pure substance. The main substance in the mixture is water.

CAS No / EC No	Components / Formula / classification / Specific Conc. Limits, M-factors	Range of concentration	
Trade secret	Black Dye	0.1%-5%	
	/		
CAS: 56-81-5	Glycerol C ₃ H ₈ O ₃	5%-20%	
EC: 200-289-5	/		
CAS: 111-46-6	Diethylene glycol C ₄ H ₁₀ O ₃	0.107.007	
EC: 203-872-2	Acute Tox.4 H302	- 0.1%-9%	
CAS: 112-34-5	Diethylene glycol monobutyl ether C ₈ H ₁₈ O ₃	0.10/.00/	
EC: 203-961-6	Eye Irrit.2 H319	0.1%-9%	
CAS, 7722 19 5	Water H ₂ O	50%-90%	
CAS: 7732-18-5	/		

4-First Aid Measures

• 4.1 Description of first aid measures

In case of contact, ingestion or inhalation, the following general measures provided for a fist aid shall be taken.

• After eyes contact:

Information Sheet Revision 10.0 Page 3 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

Do not rub eyes. Immediately flush eyes with large amounts of clean, warm water (low pressure) for at least 15 minutes. If the irritation persists, seek medical advice.

• After skin contact:

Immediately wash affected areas with mild soap and water. If the irritation persists, seek medical advice.

• After ingestion:

Ingestion is not an expected route of exposure during normal use of the product. If ingested, seek medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

• After inhalation:

Remove to fresh air. If respiration is difficult, administer artificial respiration and seek medical advice.

• 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed

Follow doctor's orders.

5- Firefighting measures

• 5.1 Extinguishing media

• Suitable extinguishing media:

Dry chemical, carbon dioxide, water spray or regular foam.

- Extinguishing media which shall not be used for safety reasons: No Information Available.
- 5.2 Special hazards arising from the substance or mixture:

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.

- Flash point and method: >93.3 °C (200°F) Closed Cup
- Approximate Flammable Limits in Air ,%by Volume: Not available
- Autoignition Temperature: Not available
- 5.3 Advice for firefighters

Information Sheet Revision 10.0 Page 4 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

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

6-Accidental Release Measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective measures, avoid contact eyes and skin. Keep unprotected persons away.

• 6.2 Environmental precautions

The product must not penetrate the sewer system, surface water, ground water and neighbouring areas.

Avoid birds or fish ingestion from drainage system, please thoroughly recycle.

• 6.3 Methods and material for containment and cleaning up

Transfer the leaked products to container. Absorb with inert absorbent such as dry, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Flush a small amount of residue with large amounts of water and detergent.

• 6.4 Reference to other sections

Any information about personal protection and disposal is given in sections 8 and 13.

7 - Handling and Storage

• 7.1 Information for safe handling

Wear appropriate personal protective measures, avoid contact eyes and skin.

Ventilation is well and far away from heat.

• Information about fire-and explosion protection

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away. Do not smoke.

Protect against electrostatic charges.

• 7.2 Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Keep away from excessively alternate heat and cold, direct sunniness.

Keep away from strong acid, strong base and strong oxidizing agent.

Information Sheet Revision 10.0 Page 5 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

Keep away from incompatible substance or mixtures.

Store in a cool, dry, ventilated area.

• Further information about storage conditions:

Keep container tightly sealed.

Keep out of the reach of children.

• 7.3 Specific end use(s)

No further relevant information available.

8-Exposure Controls, Personal Protection

• 8.1 Control parameters

No further relevant information available.

- 8.2 Exposure controls
- Information about design of technical facilities:

To provide proper ventilation, use adequate general or local exhaust ventilation.

- Ingredients with limit values that require monitoring at the workplace: No data available
- Personal protective equipment:
- Respiratory protection:

Respirators are not needed for normal use.

• 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.

• Body protection:

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

9-Physical and Chemical Properties

• 9.1 Information on basic physical and chemical properties

• Physical state Liquid

• Colour Black

Information Sheet Revision 10.0 Page 6 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

• Odour Slight

Odour threshold No data available

• Melting point/freezing point:

Melting point No data available

Freezing point No data available

• Boiling point or initial boiling

point and boiling range: No data available

• Flammability No data available

• Lower and upper explosion limit No data available

• Flash point >93.3°C (>200°F) Pensky-Martens Closed Cup

• Auto-ignition temperature No data available

• **Decomposition temperature** No data available

• pH 7-9

• Kinematic viscosity >1cp

• Soluble in water

• Partition coefficient

n-octanol/water (log value)No data available

• Vapour pressure No data available

• Density and/or relative density:

Density at 20 °C (68 °F) 1 g/cm³ (>8.345 lbs/gal)

SG: 1.3-1.8

• Relative vapour density No data available

• Particle characteristics Not applicable

• 9.2 Other information

• 9.2.1 Information with regard to physical hazard classes

No further relevant information available.

• 9.2.2 Other safety characteristics

No further relevant information available.

Information Sheet Revision 10.0 Page 7 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

10-Stability and Reactivity

• 10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

• 10.2 Chemical stability

The product is stable in normal conditions of use and storage.

• 10.3 Possibility of hazardous reactions

Polymerization will not occur.

No hazardous reactions are foreseeable in normal conditions of use and storage.

• 10.4 Conditions to avoid

No further relevant information available.

• 10.5 Incompatible materials

No further relevant information available.

• 10.6 Hazardous decomposition products

No decomposition reaction occure in normal conditions of use and storage.

11-Toxicological Information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Glycerol

PEL (OSHA): None Established

TLV (ACGIH): None Established

Diethylene glycol

PEL (OSHA): None Established

TLV (ACGIH): None Established

Information Sheet Revision 10.0 Page 8 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

Diethylene glycol monobutyl ether

PEL (OSHA): None Established

TLV (ACGIH): None Established

WATER

None Established

PEL (OSHA):

None Established

TLV (ACGIH):

• Skin corrosion/irritation

Does not meet the classification criteria for this hazard class.

• Serious eye damage/irritation

Does not meet the classification criteria for this hazard class.

• Respiratory or skin sensitisation:

Does not meet the classification criteria for this hazard class.

• Germ cell mutagenicity

Does not meet the classification criteria for this hazard class.

Carcinogenicity

Does not meet the classification criteria for this hazard class.

• Reproductive toxicity

Does not meet the classification criteria for this hazard class.

• STOT-single exposure

Does not meet the classification criteria for this hazard class.

• STOT-repeated exposure

Does not meet the classification criteria for this hazard class.

Aspiration hazard

Does not meet the classification criteria for this hazard class.

• 11.2 Information on other hazards

Information Sheet Revision 10.0 Page 9 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

• Endocrine disrupting properties

None of the ingredients is listed.

• Other information

No further relevant information available.

12-Ecological Information

• 12.1 Toxicity

No further relevant information available.

• 12.2 Persistence and degradability

No further relevant information available.

• 12.3 Bioaccumulative potential

No further relevant information available.

• 12.4 Mobility in soil

No further relevant information available.

• 12.5 Results of PBT and vPvB assessment

No further relevant information available.

• 12.6 Endocrine disrupting properties

No further relevant information available.

• 12.7 Other adverse effects

• General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13-Disposal Considerations

• 13.1 Waste treatment methods

• Product:

Do not discharge into environment, directly. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.

Information Sheet Revision 10.0 Page 10 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

Package

Contaminated or damaged package must be recovered or disposed of in compliance with national waste management regulations.

14-Transport Information

• 14.1 UN number or ID number Not applicable.

• **14.2** UN proper shipping name Not applicable.

• 14.3 Transport hazard class(es) Not applicable.

• 14.4 Packing group Not applicable.

• 14.5 Environmental hazards Not applicable.

• **14.6 Special precautions for user** Not applicable.

• 14.7 Maritime transport in bulk according to IMO instruments Information not relevant.

15-Regulatory Information

•15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

CLP category None

Restrictions relating to the product or contained substances pursuant to Table 3.1 to EC

Regulation 1272/2008(CLP) None

Substances in Candidate List(SVHC in REACH) None

• 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16-Additional Information

• Other information:

This SDS was prepared in accordance with CLP Regulation (EC) No.1272/2008, EU No 2015/830, EC No 1907/2006, REACH, GB/T16483-2008 and GB13690-2009.

• Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and

Information Sheet Revision 10.0 Page 11 of 11

Date of issue: 31/8/2015 Revised: 16/8/2023

does not relate to use in combination with any other material or in any process.

• Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging of substances and mixtures

SVHC: Substances of Very High Concern

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals

DOT: Department of transportation

EC: Effective concentration

EC50: Effective concentration, 50 percent

EINECS: European Inventory of Existing Chemical Substance

IAIA: International Association for Impact Assessment

ICAO: International Civil Aviation Organization

IMO: International Maritime Organization

IMDG: International Maritime Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEC: No Observed Effect Concentration

OSHA: Occupational Safety and Health Administration (U.S.A.)

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

TLVTN: Threshold Limit Value

VOC: Volatile Organic Compounds