

MSDS No:M-08

Date of Last Revision:2014-11-20

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

1.1. Identification of the substance/preparation: FD-BLACK-1, FD-BLUE-1.

1.2. Use of the substance/preparation : Ink for pen

1.3. Company/undertaking identification:

Section 2-Hazard identification

2.1. Classification of the substance or mixture:Mixture

2.2. GHS label elements, including precautionary statements

Skin corrosion/irritation	: Category 3
Serious eye damage/eye irritation	: Category 2B
Skin sensitization	: Category 1
Toxic to reproduction	: Category 1B
Specific target organ systemic toxicity (Single exposure)	: Category 1 (Heart, Respiratory organ, Kidney, Central nervous system)
Specific target organ systemic toxicity (Repeated exposure)	: Category 1 (Heart, Respiratory organ, Central nervous system)
Acute hazards to the aquatic environment	: Category 3
Chronic hazards to the aquatic environment	: Category 4



Hazard category	Signal word	Hazard statement
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Warning		Causes mild skin irritation
Warning		Causes eye irritation
Warning		May cause an allergic skin reaction
Danger		May damage fertility or the unborn child
Danger		May cause damage to organs (Heart, Respiratory organ, Kidney, Central nervous system)
Danger		Causes damage to organs through prolonged or repeated exposure (Heart, Respiratory organ, Central nervous system)
Harmful to aquatic life		
		May cause long lasting harmful effects to aquatic life

2.3 Other hazards which do not result in classification

None

Section 3-Composition/information on ingredients

2.1. Chemical character : Preparation

2.2. Ingredients

Chemical name	CAS No.	Contents (%)
Ethylene glycol	107-21-1	<10
1,2-Benzisothiazolin-3-one	2634-33-5	<0.1

Section 4-First aid measures

Eyes: Flush with plenty of water. If irritation develops, get medical attention.

Skin: Wash with soap and water.

Ingestion: Induce vomiting. Give water. Call a physician

Inhalation: Remove to fresh air. Treat symptoms. Call a physician.

Section 5-Fire fighting measures

General Information: nonflammable

Section 6-Accidental release measures

General Information: Soak up the spill with absorbent material and Collect in containers for disposal.

Use protective equipments such as rubber gloves and safety glasses.

Section 7-Handling and storage

Handling: Avoid contact with skin and eyes.

Storage: Store locked up.

Section 8-Exposure controls, personal protection

General Information: Not required if used in a well ventilated area.

Specific control parameters/limit values

	ACGIH TWA	TLV	STEL
Ethylene glycol	127mg/m ³	-	-

Personal protective equipment

Use personal protective equipment as required.

Section 9-Physical and chemical properties

Physical state: Liquid
Appearance: Black and Blue
PH: 2~9
Vapor pressure: No data available
Vapor density: No data available
Evaporation rate: same as water
Viscosity: < 10cps
Boiling point: about 100°C
Autoignition temp: No data available
Flash point: No data available
Explosion limits, lower: No data available
Explosion limits, upper: No data available
Solubility: Soluble
Density: 1.00-1.10

Section 10-Stability and reactivity

Chemical stability:
Stable under normal temperatures and pressures.

Conditions to avoid:
No data available

Incompatibilities with other materials:
No data available

Hazardous decomposition products:
No data available

Hazardous polymerization
Will not occur.

Section 11-Toxicological information

Acute toxicity Oral: LD50(rat) >5000 mg/kg
Inhalation LC50(rat) No data available

Germ cell mutagenicity No information available.

Carcinogenicity ACGIH: A4-Not classifiable as a human carcinogen

Mutagenicity No information available.

Section 12-Ecological information

Acute hazards to the aquatic environment : Harmful to aquatic life

Chronic hazards to the aquatic environment:Harmful to aquatic life with long lasting effects.
May cause long lasting harmful effects to aquatic life

Section 13-Disposal considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14-Transport Information

UN No. None

Hazard Class None

Packing Group: None

Section 15-Regulatory information

EC Directives:

Hazard Symbols: None

Risk Phrases: R36

Safety Phrases: S36/37

Section 16-Other information

None

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given us a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.