# Safety data sheet for chemical products

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	UB-150 Blue (uni-ball eye micro)
Manufacture's name Address Telephone number Telex number	<ul> <li>MITSUBISHI PENCIL CO.,LTD</li> <li>5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN</li> <li>03-3458-6281 Telefax number : 03-3450-0363</li> <li>2422337 MBPENC J.</li> </ul>
Prepared by	: KAZUHIRO OYAIZU
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## 2. CONPOSION/INFORMATION ON INGREDENTS

The chemical product is a substance or a preparation: Preparation

Chemical nature:

<component parts=""></component>	<chemical generic="" name="" or=""></chemical>	<cas no.=""></cas>	<Concentration range (wt%)>
Ink	Water	7732-18-5	66-69
	Pigment Blue 1	Registered	8-11
	Diethylene glycol	111-46-6	7-10
	Glycerin	56-81-5	7-10
	1,2-Propanediol	57 - 55 - 6	5-8
	Resin 1	Registered	1-4

# Other parts : Other parts are excluded from 'chemical susbstances'.

#### **3. HAZARDS IDENTIFICATION**

Most important hazards	: Not available
Specific hazards	: Not available

#### 4. FIRST-AID MEASURES

#### Inhalation:

Not applicable. (Due to its low vapor pressure. Inhalation is unlikery at room temperature.)

#### Skin contact:

Wash skin with soap or mild detergent and large amount of water until no evidence of chemical remain (at least 15-20 minutes). Get medical attention, if needed.

#### Eye contact:

Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. (at least 15-20 minutes) Get medical attention, if necessary.

#### Ingestion:

If swallowed, seek medical adivice, and show the MSDS to the physician then. [Ink quanity of product: about 2.1g]

#### 5. FIRE-FIGHTING MEASURES

Fire and explosion measures Slight fire hazard.

Exitinguishing media:

Suitable Large fires	<ul> <li>regular dry chemical, carbon dioxide, water, regular foam.</li> <li>Use regular foam or flood with fine water spray.</li> </ul>
Fire fighting	: The Product is no flammable. Move container from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low
	areas.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Not available	
Environmental precautions	Do not wash away into show	ver or water way.

Methods for cleaning up	:	Wipe off by dry cloth and wash with water.	
	:	In accordance with national, state and local regulations.	

## 7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

#### Handling:

Technical measures	: Don't swallow ink.
	: Recap after use.
	: Don't shake.
	: Keep out of the reach of children.
	: Avoid contact with skin and eyes.
Precautions	: Not available
Safe handling advice	: Not available
Storge:	
Technical measures	: Keep away from oxidizing materiaks, ignition sources and high temperature.
Stroage condition	Avoid direct sunlight.
	: Do not leave the products in high temperature space
	: Recommended temperature; 0-30°C.
Incompatible products	: (Information of components.)
acids; bases; oxidizing m <diethylene glycol=""></diethylene>	aterials; strong acids; strong bases; strong oxidizers; sodium hydroxide
Acetic anhydride, strong	acids,strong bases,calcium
	romium(III)oxide,chromium trioxide,hydrofluoric acid,nitric acid,hydrogen hloric acid,nitric acid,sulfuric acid,strong oxidizers,potassium chlorate
oxidizing materials;stron	ng oxidizers <pigment 1="" 1,="" blue="" resin=""></pigment>
salts,nitric acid+hydrofl	cids,halo carbons,metals,oxidizing materials,reducing agents,metal uoric acid+silver nitrate,oxidizers,ethylene oxide,
metals(light),acetaldehy <1,2-Propanediol>	de,barium perchlorate,chlorine,plastics,acid anhydride

Packaging materials : Not applicable.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures

: Not required

Control parameters	(Information of components.)
OSHA :	5mg/m3(Respirable fraction), 15mg/m3(Total dust)
	<glycerine, 1="" blue="" pigment=""></glycerine,>
ACGIH :	10mg/m3 <glycerine, 1="" blue="" pigment=""></glycerine,>
UK :	150ppm(474mg/m3) (total(vapor and pariclulates)),
	10mg/m3 (particlulates) <1,2-Propanediol>
:	23ppm (101mg/m3) <diethylene glycol=""></diethylene>
:	10mg/m3 (mist) <glycerine></glycerine>
AIHA :	50ppm AIHA recommended TWA(total)、
	10mg/m3 AIHA recommended TWA (aerosol) <diethylene glycol=""></diethylene>
JAIH :	8mg/m3 <pigment 1="" blue=""></pigment>

Personal protective equipment : Not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] Information of components.		
Physical state and form	: Low viscous liquid.	
Colour	: Blue	
Odour	: None odour.	
pH	$: 8.5 \pm 0.5$	
Boiling point	: Not available. [ 1,2-Propanediol / 187°C ]	
Melting point	: < -10°C	
Flashpoint	: Not available. [ 1,2-Propanediol / 109°C ]	
Autoignition temperature	: Not available. [ 1,2-Propanediol / 421°C ]	
Explosion limits (vol %)	: Not applicable.	
[Lower flammable limit / 2.6 , Upper flammable limit / 12.5 <1,2-Propanediol>]		
Vapour density (air=1)	: Not available. [ 1,2-Propanediol / 2.62 ]	
Density	: 1.1±0.5	
Solubulity in water	: Soluble.	
Evaporation rate	: Not available.	
Volatile (%)	: 88-91%	

## [ ]: Information of components.

## **10. STABILITY AND REACTIVITY**

Stability	Stability.	
Hazardous reactions	Will not occur.	
Conditions to avoid	May burn dose not ignite ready. Avoid heat, flames	, sparks

# and other sources of ignition. Avoid contact with incompatible materials

Materials to avoid : (Information of components.)

acids; bases; oxidizing materials; strong acids; strong bases; strong oxidizers; sodium hydroxide <Diethylene glycol>

Acetic anhydride,strong acids,strong bases,calcium hypochlorite,chlorine,chromium(III)oxide,chromium trioxide,hydrofluoric acid,nitric acid,hydrogen peroxide,lead oxide,perchloric acid,nitric acid,sulfuric acid,strong oxidizers,potassium chlorate <Glycerin>

oxidizing materials;strong oxidizers <Pigment Blue 1, Resin 1> combustible materials,acids,halo carbons,metals,oxidizing materials,reducing agents,metal salts,nitric acid+hydrofluoric acid+silver nitrate,oxidizers,ethylene oxide, metals(light),acetaldehyde,barium perchlorate,chlorine,plastics,acid anhydride <1,2-Propanediol>

Hazardous decomposition products : (Information of components.) oxides of carbon, water. < common decomposition products.> corrosive acrolein <Glycerine> oxides of nitrogen. <Pigment Blue 1>

#### 11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity	
Ingestion LD50	: ≧5000mg/kg-Rat <pigment 1="" 1,="" blue="" resin=""></pigment>
	: 20000mg/kg-Rat <1,2-Propanediol>
	: 3300mg/kg-Cat <diethylene glycol=""></diethylene>
	: 4090mg/kg-Mouse <glycerine></glycerine>
Inhalation LC50	: >570mg/m3-Rat <glycerine></glycerine>
Skin LD50	: 20800mg/kg-Rabbit <1,2-Propanediol>
	: 11890mg/kg-Rabbit <diethylene glycol=""></diethylene>
	: >10000mg/kg-Rabbit <glycerine></glycerine>

Signs and Symptos of overexposure and aggravated by exposure

Inhalation	: irritation <resin 1="" 1,="" blue="" pigment=""></resin>
	: headache, nausea <1,2-Propanediol, Diethylene glycol>
	: irritation, difficulty breathing <glycerin></glycerin>

Skin contact	: irritation <resin 1=""></resin>
	: irritation, nausea <1,2-Propanediol>
	: irritation, dry <diethylene glycol=""></diethylene>
	: irritation, redness <glycerin></glycerin>
Eye contact	: irritation <diethylene 1="" 1,="" blue="" glycol,="" pigment="" resin=""></diethylene>
	: pain, tearing <1,2-Propanediol>
	: tearing, stinging <glycerin></glycerin>
Ingestion	: nausea, vomiting <diethylene glycerine="" glycol,=""></diethylene>
	: rash, vomiting <1,2-Propanediol>
	: gastric disturbances <pigment 1="" blue=""></pigment>
Specific effects	: Not available.

#### 12. ECOLOGICAL INFORMATION

#### Not available.

## 13. DISPOSAL CONSIDERATIONS

Waste from residues	:	Disposal in accordance with all current regulations and
		standards.
Contaminated packaging	:	Not applicable.

## 14. TRANSPORT INFORMATION

International regulations : Not restricted

UN classification number : Not applicable

#### 15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) <Glycerine> CANADA Hazardous Products Act - Ingredient Disclosure List : 1% over <1,2-Propanediol>

Hazard and safety information

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Products are manufactured in accordance with European regulation EN71 part 3

#### 16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it. The information contained in this sheet are based knowledge of the products at the data : (MAY 7, 2001). They are given quite sincerely. Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.