

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UB-157 Blue (uni-ball eye fine)

Manufacture's name : MITSUBISHI PENCIL CO.,LTD
Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
Telephone number : 03-3458-6281 Telefax number : 03-3450-0363
Telex number : 2422337 MBPENC J.
Prepared by : KAZUHIRO OYAIZU

Creation Date : MAY 7, 2001
File No. : 066122A

2. CONPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation: Preparation

Chemical nature:

<Component parts>	<Chemical or generic name>	<CAS No.>	<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 substances'.

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 unlikely 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 advice, and show the MSDS to the physician then.
[Ink quantity of product: about 2.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

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 shower 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

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources
and high temperature.
Storage 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 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>

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required

Control parameters (Information of components.)

OSHA	: 5mg/m ³ (Respirable fraction), 15mg/m ³ (Total dust) <Glycerine, Pigment Blue 1>
ACGIH	: 10mg/m ³ <Glycerine, Pigment Blue 1>
UK	: 150ppm(474mg/m ³) (total(vapor and pariculates)), 10mg/m ³ (particulates) <1,2-Propanediol> : 23ppm (101mg/m ³) <Diethylene glycol> : 10mg/m ³ (mist) <Glycerine>
AIHA	: 50ppm AIHA recommended TWA(total)、 10mg/m ³ AIHA recommended TWA (aerosol) <Diethylene glycol>
JAIH	: 8mg/m ³ <Pigment Blue 1>

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±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
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile (%)	: 88-91%

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	: ≥ 5000 mg/kg-Rat <Pigment Blue 1, Resin 1>
	: 20000mg/kg-Rat <1,2-Propanediol>
	: 3300mg/kg-Cat <Diethylene glycol>
	: 4090mg/kg-Mouse <Glycerine>
Inhalation LC50	: >570mg/m ³ -Rat <Glycerine>
Skin LD50	: 20800mg/kg-Rabbit <1,2-Propanediol>
	: 11890mg/kg-Rabbit <Diethylene glycol>
	: >10000mg/kg-Rabbit <Glycerine>

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	: irritation <Resin 1, Pigment Blue 1>
	: headache, nausea <1,2-Propanediol, Diethylene glycol>
	: irritation, difficulty breathing <Glycerin>

Skin contact	: irritation <Resin 1>
	: irritation, nausea <1,2-Propanediol>
	: irritation, dry <Diethylene glycol>
	: irritation, redness <Glycerin>
Eye contact	: irritation <Diethylene glycol, Pigment Blue 1, Resin 1>
	: pain, tearing <1,2-Propanediol>
	: tearing, stinging <Glycerin>
Ingestion	: nausea, vomiting <Diethylene glycol, Glycerine>
	: rash, vomiting <1,2-Propanediol>
	: gastric disturbances <Pigment Blue 1>
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

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.