

# Safety data sheet for chemical products

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UB-150 Red (uni-ball eye micro)

Manufacture's name : MITSUBISHI PENCIL CO.,LTD  
Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN  
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Creation Date : MAY 7, 2001  
File No. : 066119A

## 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 Red	Registered	8-11
	1,2-Propanediol	57-55-6	7-10
	Diethylene glycol	111-46-6	7-10
	Glycerin	56-81-5	4- 7
	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

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## 4. FIRST-AID MEASURES

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### 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]

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## 5. FIRE-FIGHTING MEASURES

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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.

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## 6. ACCIDENTAL RELEASE MEASURES

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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.

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## 7. HANDLING AND STORAGE

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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 Red, 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.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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Engineering measures : Not required

## Control parameters ( Information of components. )

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

Personal protective equipment : Not required

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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[ ] : Information of components.

Physical state and form	: Low viscous liquid.
Colour	: Red.
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%

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## 10. STABILITY AND REACTIVITY

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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 Red, 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 Red>

## 11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion	LD50	: $\geq 5000$ mg/kg-Rat <Pigment Red, Resin 1>
		: 20000mg/kg-Rat <1,2-Propanediol>
		: 3300mg/kg-Cat <Diethylene glycol>
		: 4090mg/kg-Mouse <Glycerine>
Inhalation	LC50	: >570mg/m <sup>3</sup> -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 Red>
	: 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>
	: redness <Pigment Red>
Eye contact	: irritation <Diethylene glycol, Resin 1>
	: pain, tearing <1,2-Propanediol>
	: tearing, stinging <Glycerin>
Ingestion	: nausea, vomiting <Diethylene glycol, Glycerine>
	: rash, vomiting <1,2-Propanediol>
	: fever, nausea <Pigment Red>
Specific effects	: Not available.

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## 12. ECOLOGICAL INFORMATION

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Not available.

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

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International regulations	: Not restricted
UN classification number	: Not applicable

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## 15. REGULATORY INFORMATION

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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

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## 16. OTHER INFORMATION

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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.