



UV Ink Cartridge Black-2

Issued date June 23 2004

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **UV Ink Cartridge Black-2**

Product Code: **SPC-0371K-2**

Company Identification

Manufacturer's Name / Supplier Address Mimaki Engineering Co., Ltd.
5-9-41 Kita Shinagawa, Shinagawa-ku Tokyo 14-0001

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2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE INGREDIENTS AND COMPOSITION	MIXTURE COMPOSITION	
acrylates	65 ~ 75mass%	(Index No. 607-133-00-9)
isooctyl acrylate	<15mass%	(Index No. 607-244-00-2)
carbon black	<3mass%	(CAS No 1333-86-4)
2-benzyl-2-dimethylamino- 4'-morpholinobutyrophenone	<5mass%	(Index No. 606-047-00-9)
additives	<5mass%	

3. HAZARDS IDENTIFICATION

PHYSICAL AND CHEMICAL HAZARDS	-
ADVERSE HUMAN HEALTH HAZARDS	Toxic by inhalation, in contact with skin and if swallowed., Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Carbon Black, IARC Group 2B, is possibly carcinogenic to humans.
ENVIRONMENTAL EFFECTS	Toxic to aquatic organisms

4. FIRST-AID MEASURES

EYE CONTACT

Gently rinse the affected eyes with clean water for at least 15 minutes.

Remove contact lenses if easily possible.

And refer for medical attention.

SKIN CONTACT

Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible. Wash the affected area under running water using a mild soap.

If irritation persists, arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

INHALATION

Remove the victim from the contamination immediately to fresh air.

Keep the victim warm and quiet and arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

INGESTION

Never give anything by mouth to someone who is unconscious or convulsing.

If the victim is responsive, give him one or two glasses of water. And refer for medical attention.

5. FIRE-FIGHTING MEASURES

SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES

Fight fire from maximum distance.

Shut off fuel to fire if possible to do so without hazard.

EXTINGUISHING MEDIA

Dry chemical powder, foam or dioxide.

6. ACCIDENTAL RELEASE MEASURES

Shut off all sources of ignition; No smoking or flames in area.

Wear proper protective equipment.

Absorb spill with inert material (e.g., dry sand or earth), then place in closed containers using non-sparking tools.

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into shower or waterway.

7. HANDLING AND STORAGE

HANDLING

- Use only in the well-ventilated areas.
- Make available in the work area emergency shower and eyes wash.
- Avoid contact with skin or eyes.
- Only use tools and equipment resistant to organic solvents.
- Do not flush to sewer or waterways.

STORAGE

- Store product in tightly closed original containers in dry and cool place protected from sunlight fluorescent light, preferably at below 25 °C on impermeable ground.
- Keep away from sources of ignition.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETERS OF INGREDIENTS

Not established.

ENGINEERING MEASURES

Do not use in areas without adequate ventilation.

PERSONAL HYGIENE AND PROTECTIVE EQUIPMENT

Follow the general guidelines of good industrial hygiene. Avoid any direct contact with the product.
Never breathe product vapor.

RESPIRATORY PROTECTION ; Chemical cartridge respirator with an organic vapor cartridge.

EYE PROTECTION ; Chemical safety glasses.

HAND PROTECTION ; Impermeable gloves.

SKIN PROTECTION ; Long sleeve clothing, resistant to solvents.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	;Black liquid	ODOR	;Characteristic odor
DENSITY	;No data	BOILING POINT	;No data
MELTING POINT	;Not applicable	VAPOUR PRESSURE	;No data
SOLUBILITY IN WATER	;Insoluble		
SOLUBILITY IN ORGANIC SOLVENT	;Soluble		

10. PHYSICAL HAZARD(STABILITY AND REACTIVITY)

FLASH POINT	; >95
AUTOIGNITION TEMPERATURE	; No data
EXPLOSION LIMIT	; No data
CONDITIONS TO AVOID	; Heat, sunlight (may result in polymerization)
MATERIALS TO AVOID	; Oxidizing agents, strong bases, and transition metals (possible polymerization)

11. TOXICOLOGICAL INFORMATION

The product may cause a moderate irritation to the eyes, followed by burning sensation, tearing, redness. Skin contact may result in delayed irritation and blistering.

No significant symptoms of any adverse health hazard is expected to occur by ingestion of the product. Due to the low vapor pressure, inhalation is no primary route of entry.

Irritations of the respiratory tract may be caused by inhalation of product vapors or mists in high concentration(Lit 1).

12. ECOLOGICAL INFORMATION

No data is available about the ecotoxicological potential of the product.

Never release product into the environment. Decant and purify polluted waste water before its release into the drains.

13. DISPOSAL CONSIDERATION

Scrap materials may be disposed by licensed contractor or burn in an approved incinerator.

Do not dump into sewer, on the ground or into any body of water.

Follow national and local regulations.

14. TRANSPORT INFORMATION

Follow all regulations in your country.

UN CLASS	9
UN NUMBER	UN3082

15. REGULATORY INFORMATION

Follow all regulations in your country.

Followings are according to EC regulations.

Warning Sign: Xi (Irritant), N (Dangerous for the environment)

R-Phrases : 36/37/38-50/53

Irritating to eyes, respiratory system and skin.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrases : 26-28-60-61

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash immediately with plenty of water and soap.

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Lit 1: Mimaki Engineering Co., Ltd. unpublished results.

This preparation should only be used and tested for R&D.

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End of MSDS