

Safety Data Sheet

According to 91/155/EEC

Sublimation Dye Ink Cartridge Yellow

Revised January 7th 2004

1. Substance / preparation and company identification

Product Name: **Sublimation Dye Ink Cartridge Yellow**

Product Code: **SPC-0370Y**

Use: Auxiliary / finishing agent for the textile industry

Company Identification:

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

Phone Number / Fax 81-3-5420-8671 / 81-3-5420-8687

Contact Person Masaaki Fujita

Emergency Phone Number 81-3-5420-8671

2. Composition / information on ingredients

Chemical nature:

Disperse dye, preparation in water / solvent

Hazardous ingredients:

Pentane-1, 2-diol Content (W/W): >1% - <5%
EG-Number: 226-285-3
Hazard symbol(s): Xi
R-phrase(s): 41

The wording of hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

3. Hazard identification

No particular hazards known.

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4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapor / aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:

Water spray, dry extinguishing media, foam, carbon dioxide

Specific hazards:

Harmful vapors

Evolution of fumes / fog. The substances / groups of substances mentioned can be released in case of fire.

Further information:

Contaminated extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Contain contaminated water / firefighting water.

Do not discharge into drains / surface waters / groundwater.

Methods for cleaning up or taking up:

For large amounts: Pump off product

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

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7. Handling and storage

Handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary

Storage

Further information on storage conditions: Keep container tightly closed and in a cool place.

Protect from temperatures below: 0 degree C

Protect from temperature above: 40 degree C

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapor / aerosol release.

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials short-term contact and / or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN374)

Butyl rubber (butyl) – 0.7 mm coating thickness

Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance with EN374.

Manufacture's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the coloring properties of the product closed work clothes should be used, to avoid stains during manipulation.

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9. Physical and chemical properties

| | | |
|----------------------|---------------------------------------|-------------------------|
| Form | : Liquid | |
| Color | : Yellow | |
| Odor | : Product specific | |
| pH value | : 7-9 | |
| Freezing point | : approx. 0 degree C | (capillary tube method) |
| Boiling point | : Approx. 100 degree C (1013hPa) | |
| Flash point | : >100 degree C | |
| Flammability | : does not ignite | |
| Ignition temperature | : >200 degree C | (DIN 51794) |
| Explosion hazard | : not explosive | |
| Vapor pressure | : approx. 23hPa (20 degree C) | |
| Density | : 1.1 g/cm ³ (20 degree C) | (ISO 2811-3) |
| Solubility in water | : Insoluble (15 degree C) | |
| Flow time | : 10-20s (23 degree C) | (DIN 53211; 4 mm) |

10. Stability and reactivityThermal decomposition:

No decomposition if used as directed

Hazardous reactions:

No Hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

No hazardous decomposition products known.

11. Toxicological informationLD50 / oral / rat: >2000 mg/kgPrimary skin irritation / rabbit: non-irritant (OECD Guideline 404)Primary irritations of mucous membrane / rabbit: non-irritant (OECD Guideline 405)Additional information:

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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12. Ecological informationEcotoxicity:

Toxicity to fish : Leuciscus idus / LC50 (96h): >100 mg/l
Microorganisms / Effect on activated sludge : OECD Guideline 209
Pseudomonas putida / EC50 : >1000mg/l
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and degradability:

Elimination information
Test method : OECD 301A (new version), activated sludge
Method of analysis : DOC reduction
Degree of elimination : >70%
Evaluation : Biodegradable

Other adverse effects:

Absorbable organically-bound halogen (AOX): 0%

Additional information:

Other ecotoxicological advice:
The material / the product should not go into waste-water if stored and handled as prescribed / indicated.
The product has not been tested. The statements on ecotoxicology have been derived from the properties of individual components.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

The waste codes quoted are manufacture's recommendations based on designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assignments.
Contact the manufacturer directly in case of waste disposal problems with the assigned waste-code.

Waste key: 040213 Dyestuffs and pigments

Contaminated packaging:

Uncontaminated packs can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

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15. Regulatory information

Regulations of the European union (Labeling) / National legislation / Regulations

Directive 1999/45/EEC ('Preparation Directive'):

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other information

Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:
Xi Irritant.

41 Risk of serious damage to eyes.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

End of MSDS