

MATERIAL SAFETY DATA SHEET

Serial No. 6001

Revision Date: MAR. 15, 2004

(1. PRODUCT and COMPANY IDENTIFICATION)

Product name : **KIWA-JET SUBLIMATE YELLOW**

Manufacture's name : KIWA CHEMICAL INDUSTRY CO., LTD.
Address : 33, Minamitanabe-cho, Wakayama City, Japan
Dyestuff Division, Sales Department
Telephone No. for information : 81-73-423-3211 FAX No. : 81-73-425-9338
Emergency Telephone No. : 81-73-423-8326 FAX No. : 81-73-423-8327

(2. COMPOSITION / INFORMATION ON INGREDIENTS)

Substance or Preparation : Preparation
Chemical Name : Aqueous dispersion liquid of water insoluble dye
Component and Contents : 1) Coloring matter 2) Higher alcohol
3) Surfactant 4) PH-regulator
5) Surface tension regulator 6) Antiseptics
7) Water
Hazardous component : None
MITI No. (JAPAN) : Available about all components (Trade secret)
(MITI : Ministry of International Trade and Industry)
CAS No. : Available about all components (Trade secret)
Chemical characteristics : None

(3. HAZARDOUS IDENTIFICATION)

Classification of hazardous in Japan : Not applicable to be hazardous
The most important hazardous : None
Specific hazardous : None

(4. FIRST AID MEASURES)

Eye contact : Wash eyes immediately with large amount of water for at least 15 minutes until no evidence of chemical remains. Get medical attention immediately
Skin contact : Remove contaminated clothing, shoes immediately. Wash with soap and large amounts of water until no evidence of chemical remains. Get medical attention, if you need.
Inhalation : Remove from exposure immediately. Perform artificial respiration if you need and get medical attention.
Ingestion : Induce vomiting if possible and wash the mouth well. Get medical attention immediately.

(5. FIRE-FIGHTING MEASURES)

In case of fire : Even though there is no possibility of direct ignition unless contended water is vaporized as it is liquid form, in case of fire after being solidified, extinguish with fire extinguisher or plenty of water. Extinguish from windward and put protector and gas mask.
Extinguishing Media : Water, Foam, Carbon Dioxide, Dry Chemical

(6. ACCIDENTAL RELEASE MEASURES)

- Personal Precautions : Must put on protectors (Mask, Goggles, Gloves, Rubber-shoes, etc.) to avoid inhalation, ingestion, contact with skin and eyes.
- Environment Precautions : Must take suitable measure due to avoid discharge to environment such as river, sewer.
- Methods for Cleaning up : Wipe off and collect spilled liquid with absorber such as cloths, sand, diatom earth.
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(7. HANDLING and STORAGE)

- Handling Technical measure : Must put on protectors to avoid inhalation, ingestion, contact with skin and eyes.
- Precaution for : Be careful not to break containers and keep away from
 safety handling oxidizing agent, reducing agent, peroxide, strong acid, strong alkali, etc.
- Storage Technical measure : Store in the sealed containers and keep in the safety place.
- Incompatible materials : Oxidizing agent, Reducing agent, Peroxide, Strong acid, Strong alkali, etc.
- Storage condition : Store in the sealed containers and keep in the place where temperature is between 0°C and 40°C.
- Container : Store with the container that we deliver.
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(8. EXPOSURE CONTROL / PERSONAL PROTECTION)

- Managing Concentration : No Data available
- Permitted Concentration : No Data available
[Japan Association on Industrial Health 1994 edition,
ACGIH *1 1993-96 edition]
- Facility Measures : Exhauster, etc.
- Protector : Goggles, Gloves, Mask, Rubber-shoes
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(9. PHYSICAL and CHEMICAL PROPERTIES)

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|----------------|-----------|--------------|-----------------------------------|
| Physical state | : Liquid | Density | : approx. 1.09g/cc |
| Appearance | : Yellow | Viscosity | : 2-8cps (at 20°C) |
| P H | : 7.0-9.0 | Solubility | : Mingle with water |
| Boiling point | : 100°C | Flammability | : Flammable after water vaporized |
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(10. STABILITY and REACTIVITY)

- Spontaneous Reactivity and Stability : Stable under normal conditions
- Harmful decomposed products : Generating Carbon oxide, Carbon dioxide, Nitrogen oxides, etc. when burnt.
- Incompatible materials : Oxidizing agent, Reducing agent, Peroxide, Strong acid, Strong alkali, etc.
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(11. TOXICOLOGICAL INFORMATION)

- Irritability
- Skin Irritation : None
 (Annex V Method, COMMISSION DIRECTIVE 93/21/EEC of EU)
- Eye Irritation : No Data available concerning this product in RTECS **2 issued by NIOSH ***3.
- Sensitization : No Data available (Same as above)
- Acute Toxicity : LD₅₀ ≥ 5,000mg/kg (Oral, Rat)

Chronic Toxicity : (Data of coloring matter component)
: No Data available concerning this product in RTECS **2 issued by NIOSH ***3.

Mutagenicity : No Data available (Same as above)

Carcinogenicity : No Data available (Same as above)

(12. ECOLOGICAL INFORMATION)

Degradability : No Data available
Bio accumulation : No Data available
Ecological toxicity : No Data available

(13. DISPOSAL CONSIDERATION)

Dispose in accordance with local, state and federal regulation and legislation.

(14. TRANSPORT INFORMATION)

See "(7. HANDLING and STORAGE)".

(15. REGULATORY INFORMATION)

This is not restricted by any of laws listed as follows:
Chemical Substance Control Act, The Industrial Safety and Health Law, The Fire Service Act, Regulation of Poison and Toxicant, The Safety of Vessel's Law, Pollutant Release and Transfer Register Law (PRTR Law)

(16. OTHER INFORMATION)

Read well the section of (4. FIRST AID MEASURES), (7. HANDLING and STORAGE), (8. EXPOSURE CONTROL / PERSONAL PROTECTION), etc. and be careful for handling.

We made this Material Safety Data Sheet for Textile Dyeing.
Please ask further information for the restrictions and regulations of the other usage.
The supplier makes no warranties, either express or implied, concerning of this product.
User assumes all risks resulting from its use.

- 1) ACGIH = American Conference of Governmental Industrial Hygienists Inc.
 - 2) RTECS = Registry of Toxic Effects of Chemical Substances
 - 3) NIOSH = National Institute for Occupational Safety and Health
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