

MATERIAL SAFETY DATA SHEET

Serial No. 6229

Revision Date: Sep. 8. 2004

(1. PRODUCT and COMPANY IDENTIFICATION)

Product name : **KIWA-JET SUBLIMATE P-SBLACK**

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) Polyhydric alcohol
3) Surfactant 4) PH-regulator
5) Surface tension regulator 6) Antiseptics
7) Water
Hazardous component : None
ENCS No. (JAPAN) : Available about all components (Trade secret)
CAS No. : Available about all components (Trade secret)
Chemical characteristics : None

(3. HAZARDOUS IDENTIFICATION)

Classification of hazard in Japan : Not applicable to be hazardous
Physical and Chemical hazard : Not dangerous in case of usual handling
Environmental effects : Harmful to aquatic environment
The most important hazard : None
Specific hazard : 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 safety handling : Be careful not to break containers and keep away from 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 : Not be established
- Permitted Concentration : Polyhydric alcohol (Mist)=10mg/m³ (TWA, 8hr)
Other components are not established.
[Japan Association on Industrial Health 1994 edition, ACGIH 1995-96 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. 1.10g/cc |
| Appearance | : Black | Viscosity | : 2-8cps (at 20°C) |
| PH | : 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, Sulfur 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	: Non-irritating
Eye Irritation	: No Data about this product.
Sensitization	: No Data about this product.
Acute Toxicity	: No Data about this product.
Chronic Toxicity	: No Data about this product.
Mutagenicity	: No Data about this product.
Carcinogenicity	: No Data about this product.

(12. ECOLOGICAL INFORMATION)

Degradability	: No Data about this product.
Bio accumulation	: No Data about this product.
Ecological toxicity	: No Data about this product.

(13. DISPOSAL CONSIDERATION)

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

(14. TRANSPORT INFORMATION)

UN Class/UN No. : Not applicable
See "(7. HANDLING and STORAGE)".

(15. REGULATORY INFORMATION, JAPAN)

This product is not regulated 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)

This product does not release any of aromatic amines* which are regulated in "German Consumer Goods Legislation, Eco-Tex Standard 100, EU Eco Label, Japan Environment Association Eco-mark" by reductive cleavage of azo-bonds, and does not include carcinogenic dyestuffs and allergenic dyestuffs which are regulated in "Eco-Tex Standard 100, EU Eco Label, Japan Environment Association Eco-mark".

* Prohibited aromatic amines : 22 aromatic amines which are regulated in 76/769/EEC(31/2002/EC) and 2,4-Xylidine, 2,6-Xylidine.

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

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.
