

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PX-20 White [PAINT MARKER]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363
 Telex number : 2422337 MBPENC J.

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia
 ABN : 31 085 515 671
 Address : 674 Lorimer Street, Port Melbourne VIC 3207
 Telephone Number : 03 9646 5630
 Emergency Telephone Number: 03 9646 5630
 (Monday to Friday 9:00am - 5.00pm, general information only)

Creation Date : September 8, 2006
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2. HAZARDS IDENTIFICATION

Does not constitute a risk during normal handling or use.

Most important hazards : Not available.
 Specific hazards : Information of components.

<Xylene><Benzene, ethyl>

MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, aspiration hazard, central nervous system depression

PHYSICAL HAZARDS: Flammable liquid and vapor. Vapor may cause flash fire.

Electrostatic charges may be generated by flow, agitation, etc.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

| Chemical or generic name | Component parts : Ink | | | Concentration range (wt%) |
|-----------------------------|-----------------------|------------|-----------|---------------------------|
| | CAS No. | TSCA | EINECSNo. | |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 30-50 |
| Xylenes (Benzene, ethyl) | 1330-20-7 | Registered | 2155357 | 30-50 |
| | 100-41-4 | Registered | 2028494 | |
| Resins | Registered | Registered | Polymer | 10-30 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Remove from exposure area to fresh air immediately. Give artificial respiration if not breathing. Treat symptomatically and supportively. Get medical attention immediately.

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

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 immediately.

Ingestion:

Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately, and show the MSDS to the physician then.

[Ink quantity of product : about 8.5g]

5. FIRE-FIGHTING MEASURES

Extinguishing media:

- | | |
|---------------|--|
| Suitable | : regular dry chemical, carbon dioxide, water, regular foam |
| Large fires | : Use regular foam or flood with fine water spray. |
| Fire fighting | : 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. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|---------------------------|---|
| Personal precautions | : Not available. |
| Environmental precautions | : Do not wash away into shower or water way. |
| Methods for cleaning up | : Take/Soak up with absorbent. : In accordance with national, state and local regulations. : Don't dispose in fire. |

7. HANDLING AND STORAGE

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. : Keep out of the reach of children. : Avoid contact with skin and eyes. |
| Precautions | : Use only in well-ventilated areas. : Don't breathe the vapor. |
| Safe handling advice | : Not available. |

Storage:

- Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.
- Storage condition : Avoid direct sunlight.
: Keep away from heat sources.
: Recommended temperature: 0-30 C.
- Incompatible products : (Information of components.)
- | | |
|--|------------------|
| metals | Titanium dioxide |
| oxidizing materials, combustible materials, acids, amines, bases | Xylene |
| acids, bases, oxidizing materials, combustible materials | Benzene, ethyl- |
| oxidizing materials | Resin |
- Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Engineering measures : Local exhaust ventilation system are not required, but recommended.

Control parameters (Information of components.)

| | | |
|-------|-------------------------|--------------------------|
| OSHA | 100ppm(435mg/m3) TWA | Xylene / Benzene, ethyl- |
| ACGIH | 10mg/m3 TWA | Titanium dioxide |
| | 100ppm TWA. 150ppm STEL | Xylene |
| | 100ppm TWA. 125ppm STEL | Benzene, ethyl- |
| EC | 50ppm TWA. 100ppm STEL | Xylene |
| | 100ppm TWA. 200ppm STEL | Benzene, ethyl- |

- Personal protective equipment : General persons are not required, but alcohol allergy persons recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

- Physical state and form : Low viscous liquid.
- Color : White.
- Odor : Aromatic odor.
- pH : Not applicable.
- Boiling point : Not available. [Benzene, ethyl-/ 136 C]
- Melting point : Not available.
- Flash point : Not available. [Benzene, ethyl-/ 15 C(CC)]
- Autoignition temperature : Not available. [Benzene, ethyl-/ 432 C]
- Explosion limits : Not applicable.
[Lower flammable limit / 0.8% , Upper flammable limit / 6.7% <Benzene, ethyl->]
- Density : about 1.3 / 25 C
- Vapor density (air=1) : Not available. [Benzene, ethyl-/ 3.7]
- Solubility in water : Not available. [Benzene, ethyl-/ 0.015%]
- Evaporation rate : Not available. [Xylene/ 0.6]
- Volatile : 43-46%

10. STABILITY AND REACTIVITY

| | | |
|--|---|-------------------------------|
| Stability | : Stability. | |
| Hazardous reactions | : Will not occur. | |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. | |
| Materials to avoid | : (Information of components.) | |
| metals | | Titanium dioxide |
| oxidizing materials, combustible materials, acids, amines, bases | | Xylene |
| acids, bases, oxidizing materials, combustible materials | | Benzene, ethyl- |
| oxidizing materials | | Resin |
| Hazardous decomposition products | : (Information of components.) | |
| oxides of carbon, water | | common decomposition products |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|---|---|
| Ingestion LD50 | >24000mg/kg-Rat 2119mg/kg-Mouse 3500mg/kg-Rat | Titanium dioxide Xylene Benzene, ethyl- |
| Inhalation LC50 | >6820mg/m ³ -4H-Rat 5000ppm-4H-Rat | Titanium dioxide Xylene |
| Skin LD50 | >10000mg/m ³ -Rabbit >1700mg/kg-Rabbit 17800uL/kg-Rabbit | Titanium dioxide Xylene Benzene, ethyl- |

Local effects Irritant: inhalation, skin, eye Xylene / Benzene, ethyl- / Resin

Chronic toxicity and long term toxicity

The liquid defats the skin. The substance may have effects on the central nervous system. Exposure to the substance may enhance hearing damage caused by exposure to noise. Animal tests show that this substance possibly causes toxicity to human reproduction or development. Xylene

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|------------------|--|--|
| Inhalation | irritation, cough irritation, nausea irritation, difficulty breathing | Titanium dioxide / Resin Xylene Benzene, ethyl- |
| Skin contact | irritation irritation, blisters irritation, absorption | Titanium dioxide / Resin Xylene Benzene, ethyl- |
| Eye contact | irritation irritation, burn irritation, tearing irritation, redness | Titanium dioxide Xylene Benzene, ethyl- Resin |
| Ingestion | irritation, nausea nausea, vomiting | Xylene Benzene, ethyl- |
| Specific effects | IARC Group 3 IARC Group 2B | Xylene Benzene, ethyl- |

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
: Don't dispose in fire.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Xylene / Benzene, ethyl-

EU labeling

12.5%<=Xn;R20/21<20%<=Xn;R20/21-38, R10 : Xylene

25%<=Xn;R20, F;R11 : Benzene, ethyl-

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over : Benzene, ethyl-

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

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 : (March 8, 2011). 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.