Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M White [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010419A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Ethyl alcohol	64-17-5	Registered	2005786	< 10
2-Propanol	67-63-0	Registered	2006617	< 10
Additives	Registered	Registered	Registered	< 10
Resins	Registered	Registered	Registered	< 10

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage

<Additive>
PHYSICAL FORM : crystalline powder, granules, gel

<Ethyl alcohol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, liver damage, central nervous system depression
PHYSICAL HAZARDS: Flammable liquid and vapor. Vapor may cause flash fire.

<2-Propanol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, eye irritation, central nervous system depression
PHYSICAL HAZARDS: Flammable liquid and vapor. Vapor may cause flash fire.

4. FIRST-AID MEASURES

Inhalation:
Not applicable.
(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:
Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:
If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.
Extinguishing media:
Suitable : regular dry chemical, carbon dioxide, water, regular foam.
Large fires : Use regular foam or flood with fine water spray.
Fire fighting : The Products is no flammable.
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 : Wipe off by dry cloth and wash with water.
: In accordance with national, state and local regulations.

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 : Not available.
Safe handling advice : Not available.
Storage:
Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition : Avoid direct sunlight.
: Do not leave the products in high temperature space.
: Recommended temperature: 0-30 C.

Incompatible products : (Information of components.)

metals	Titanium dioxide
oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol
halo carbons, halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive
halo carbons, metals, metal salts, oxidizing materials, halogens, peroxides, acids, metal oxides, bases,	Ethyl alcohol
acids, metals, oxidizing materials, combustible materials, halogens, peroxides, bases, metal salts	2-Propanol

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust)	Titanium dioxide
	20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2)	Additive
	1000ppm(1900mg/m3) TWA	Ethyl alcohol
	400 ppm TWA, 500ppm STEL	2-Propanol
ACGIH	10mg/m3 TWA	Titanium dioxide
	ceiling 100mg/m3 (particulate)(aerosol)	Ethylene glycol
	10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica)	Additive
	1000ppm STEL	Ethyl alcohol
	200ppm TWA, 400ppm STEL	2-Propanol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) EC MAK TWA(skin) 104mg/m3(40ppm) EC MAK STEL(skin)	Ethylene glycol
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state	: Liquid.
Color	: White.
Odor	: None odor.
pH	: 8.3
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature	: Not applicable. [Ethylene glycol/ 398 C]
Explosion limits	: Not applicable.

[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]

Density : about 1.3 / 25 C

Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 68%

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, bases, acids, reducing agents, metals	Ethylene glycol
halo carbons, halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive
halo carbons, metals, metal salts, oxidizing materials, halogens, peroxides, acids, metal oxides, bases, combustible materials	Ethyl alcohol
acids, metals, oxidizing materials, combustible materials, halogens, peroxides, bases, metal salts	2-Propanol

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of titanium.	Titanium dioxide
crystalline silica.miscellaneous decomposition products.	Additive

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	4700mg/kg-Rat	Ethylene glycol
	3160mg/kg-Rat	Additive
	3450mg/kg-Mouse	Ethyl alcohol
	3600mg/kg-Mouse	2-Propanol
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
	11100ppm-4H-Mouse	2-Propanol
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol
	12800mg/kg-Rabbit	2-Propanol
Local effects	Irritant;inhalation, skin, eye	Ethylene glycol / Ethyl alcohol
	Irritant;inhalation, eye	2-Propanol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
pneumoconiosis	Additive
The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.	Ethyl alcohol
The liquid defats the skin.	2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol Additive / Ethyl alcohol
	irritation,nausea	2-Propanol
Skin contact	irritation,dry	Ethylene glycol / Additive Ethyl alcohol
	irritation,absorption	2-Propanol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol Additive / Ethyl alcohol
	irritation,pain	2-Propanol
Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	nausea,vomiting	Ethylene glycol
	fever,gastrointestinal	Additive
	rash,vomiting	Ethyl alcohol
	nausea,stomach pain	2-Propanol
Specific effects	IARC Group 2B	Titanium dioxide
	IARC Group 3	Additive / 2-Propanol
	IARC Group 1	Ethyl alcohol

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol / 2-Propanol

EU labeling

25%<=Xn;R22	Ethylene glycol
F;R11	Ethyl alcohol
F;R11, Xi;R36, R67	2-Propanol

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over	Ethylene glycol / Additive / 2-Propanol
0.1%over	Ethyl alcohol

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 : (October 25, 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.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M Red [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010420A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Titanium dioxide	13463-67-7	Registered	2366755	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Ethyl alcohol	64-17-5	Registered	2005786	< 10
Coloring agent	Registered	Registered	Registered	< 10
Additives	Registered	Registered	Registered	< 10
Resins	Registered	Registered	Registered	< 10

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage

<Ethyl alcohol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, liver damage, central nervous system depression
PHYSICAL HAZARDS: Flammable liquid and vapor. Vapor may cause flash fire.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: cent

4. FIRST-AID MEASURES

Inhalation:
Not applicable.
(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable	: regular dry chemical, carbon dioxide, water, regular foam.
Large fires	: Use regular foam or flood with fine water spray.
Fire fighting	: The Products is no flammable. 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	:	Wipe off by dry cloth and wash with water.
	:	In accordance with national, state and local regulations.

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	:	Not available.
Safe handling advice	:	Not available.

Storage:

Technical measures	:	Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition	:	Avoid direct sunlight.
	:	Do not leave the products in high temperature space.
	:	Recommended temperature: 0-30 C.
Incompatible products	:	(Information of components.)

oxidizing materials	Coloring agent / Resin
metals	Titanium dioxide
oxidizing materials, bases, acids,	Ethylene glycol
halo carbons, metals, metal salts,	Ethyl alcohol
halogens, acids, combustible materials,	Additive

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 1000ppm(1900mg/m3) TWA 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2)	Titanium dioxide Ethyl alcohol Additive
ACGIH	10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 1000ppm STEL 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica)	Titanium dioxide Ethylene glycol Ethyl alcohol Additive
EC	6mg/m3 52mg/m3(20ppm) EC MAK TWA(skin), 104mg/m3(40ppm) EC MAK STEL(skin) 1000ppm	Titanium dioxide Ethylene glycol Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state : Liquid.
Color : Red.
Odor : None odor.
pH : 8.3
Boiling point : Not available. [Water/ 100 C]
Melting point : <-10 C
Flash point : Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature : Not applicable. [Ethylene glycol/ 398 C]
Explosion limits : Not applicable.
[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density : about 1.1 / 25 C
Vapor density (air=1) : Not available. [Ethylene glycol/ 2.1]
Solubility in water : Soluble.
Evaporation rate : Not available.
Volatile : 75%

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.)

oxidizing materials	Coloring agent / Resin
metals	Titanium dioxide
oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol
halo carbons, metals, metal salts, oxidizing materials, halogens, peroxides, acids, metal oxides, bases, combustible materials	Ethyl alcohol
halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of titanium.	Titanium dioxide
oxides of nitrogen.	Coloring agent
miscellaneous decomposition products.	Resin
crystalline silica.	Additive

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	4700mg/kg-Rat	Ethylene glycol
	3450mg/kg-Mouse	Ethyl alcohol
	3160mg/kg-Rat	Additive
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol
Local effects	Irritant;inhalation, skin, eye	Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.	Ethyl alcohol
pneumoconiosis	Additive

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide Ethylene glycol / Ethyl alcohol Additive
	irritation	Coloring agent
	headache,nausea	Resin
Skin contact	redness,swelling of skin	Coloring agent
	irritation	Resin
	irritation,dry	Ethylene glycol / Ethyl alcohol Additive
Eye contact	irritation	Resin
	irritation,redness	Titanium dioxide / Ethylene glycol Ethyl alcohol / Additive

Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	nausea,vomiting	Coloring agent
	digestive discomfort	Resin
	nausea,vomiting	Ethylene glycol
	rash,vomiting	Ethyl alcohol
Specific effects	IARC Group 3	Additive
	IARC Group 2B	Titanium dioxide
	IARC Group 1	Ethyl alcohol

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling

25%<=Xn;R22	Ethylene glycol
F;R11	Ethyl alcohol

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over	Ethylene glycol / Additive
0.1%over	Ethyl alcohol

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 : (October 25, 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.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M Light blue [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010421A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Ethyl alcohol	64-17-5	Registered	2005786	< 10
Additives	Registered	Registered	Registered	< 10
Resins	Registered	Registered	Registered	< 10
Coloring agent	Registered	Registered	Registered	< 1

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage

<Additive>
PHYSICAL FORM : crystalline powder, granules, gel

<Ethyl alcohol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, liver damage, central nervous system depression
PHYSICAL HAZARDS: Flammable liquid and vapor. Vapor may cause flash fire.

<Coloring agent>
PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.

4. FIRST-AID MEASURES

Inhalation:
Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable	: regular dry chemical, carbon dioxide, water, regular foam.
Large fires	: Use regular foam or flood with fine water spray.
Fire fighting	: The Products is no flammable. 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	:	Wipe off by dry cloth and wash with water.
	:	In accordance with national, state and local regulations.

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	:	Not available.
Safe handling advice	:	Not available.

Storage:

Technical measures	:	Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition	:	Avoid direct sunlight.
	:	Do not leave the products in high temperature space.
	:	Recommended temperature: 0-30 C.
Incompatible products	:	(Information of components.)

metals	Titanium dioxide
oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol

halo carbons, halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive
halo carbons, metals, metal salts, oxidizing materials, halogens, peroxides, acids, metal oxides, bases, oxidizing materials	Ethyl alcohol
	Coloring agent

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2)	Titanium dioxide Additive
	1000ppm(1900mg/m3) TWA	Ethyl alcohol
	5mg/m3(Respirable flaction), 15mg/m3(Total dust) [Nuisance Dust]	Coloring agent
ACGIH	10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica)	Titanium dioxide Ethylene glycol Additive
	1000ppm STEL 10mg/m3 TWA	Ethyl alcohol Coloring agent
EC	6mg/m3 52mg/m3(20ppm) EC MAK TWA(skin) 104mg/m3(40ppm) EC MAK STEL(skin)	Titanium dioxide Ethylene glycol
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state	: Liquid.
Color	: Light blue.
Odor	: None odor.
pH	: 8.3
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature	: Not applicable. [Ethylene glycol/ 398 C]
Explosion limits	: Not applicable.
	[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 71%

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, bases, acids, reducing agents, metals	Ethylene glycol
halo carbons, halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive
halo carbons, metals, metal salts, oxidizing materials, halogens, peroxides, acids, metal oxides, bases, combustible materials	Ethyl alcohol
oxidizing materials	Coloring agent

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of titanium.	Titanium dioxide
crystalline silica.miscellaneous decomposition products.	Additive
oxides of nitrogen.	Coloring agent

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	4700mg/kg-Rat	Ethylene glycol
	3160mg/kg-Rat	Additive
	3450mg/kg-Mouse	Ethyl alcohol
	>5000mg/kg-Rat	Coloring agent
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects Irritant;inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
pneumoconiosis	Additive
The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.	Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol Additive / Ethyl alcohol
	irritation	Coloring agent

Skin contact	irritation,dry	Ethylene glycol / Additive Ethyl alcohol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol Additive / Ethyl alcohol
	irritation	Coloring agent
Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	nausea,vomiting	Ethylene glycol
	fever,gastrointestinal	Additive
	rash,vomiting	Ethyl alcohol
	gastric disturbances	Coloring agent
Specific effects	IARC Group 2B	Titanium dioxide
	IARC Group 3	Additive
	IARC Group 1	Ethyl alcohol

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling

25%<=Xn;R22	Ethylene glycol
F;R11	Ethyl alcohol

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over	Ethylene glycol / Additive
0.1%over	Ethyl alcohol

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 : (October 25, 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.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M Violet [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010422A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Resins	Registered	Registered	Registered	10- 30
Titanium dioxide	13463-67-7	Registered	2366755	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Additives	Registered	Registered	Registered	< 10
Coloring agents	Registered	Registered	Registered	< 10
Polyoxyethylene nonylphenyl	9016-45-9	Registered	Registered	< 1

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Resin>
PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.
<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage
<Polyoxyethylene nonylphenyl ether>
MAJOR HEALTH HAZARDS; eye irritation

4. FIRST-AID MEASURES

Inhalation:
Not applicable.
(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable	: regular dry chemical, carbon dioxide, water, regular foam.
Large fires	: Use regular foam or flood with fine water spray.
Fire fighting	: The Products is no flammable. 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	:	Wipe off by dry cloth and wash with water.
	:	In accordance with national, state and local regulations.

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	:	Not available.
Safe handling advice	:	Not available.

Storage:

Technical measures	:	Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition	:	Avoid direct sunlight.
	:	Do not leave the products in high temperature space.
	:	Recommended temperature: 0-30 C.
Incompatible products	:	(Information of components.)

oxidizing materials	Resin / Coloring agent Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide
oxidizing materials, bases, acids,	Ethylene glycol
halogens, acids, combustible materials,	Additive

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2)	Titanium dioxide Additive
ACGIH	10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica) 10mg/m3 TWA	Titanium dioxide Ethylene glycol Additive Coloring agent
EC	6mg/m3 52mg/m3(20ppm) EC MAK TWA(skin), 104mg/m3(40ppm) EC MAK STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state : Liquid.
Color : Violet.
Odor : None odor.
pH : 8.3
Boiling point : Not available. [Water/ 100 C]
Melting point : <-10 C
Flash point : Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature : Not applicable. [Ethylene glycol/ 398 C]
Explosion limits : Not applicable.
[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density : about 1.1 / 25 C
Vapor density (air=1) : Not available. [Ethylene glycol/ 2.1]
Solubility in water : Soluble.
Evaporation rate : Not available.
Volatile : 75%

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.)

oxidizing materials	Resin / Coloring agent Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide
oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol
halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of nitrogen, cyanides, aldehydes, corrosive acrolein, various organic fragments	Resin
oxides of titanium.	Titanium dioxide
miscellaneous decomposition products.	Coloring agent
crystalline silica.	Additive

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	1000mg/kg-Mouse	Resin
	>24000mg/kg-Rat	Titanium dioxide
	4700mg/kg-Rat	Ethylene glycol
	3160mg/kg-Rat	Additive
	≧5000mg/kg-Rat	Coloring agent
	2950mg/kg-Mouse	
	1310mg/kg-Rat	Polyoxyethylene nonylphenyl ether
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects	Irritant;inhalation, skin, eye	Ethylene glycol
	Irritant;eye	Polyoxyethylene nonylphenyl ether

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
pneumoconiosis	Additive

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Resin / Titanium dioxide Ethylene glycol / Additive
	irritation	Coloring agent Polyoxyethylene nonylphenyl ether
Skin contact	mechanical abrasion,irritation	Resin
	irritation	Polyoxyethylene nonylphenyl ether
	irritation,dry	Ethylene glycol / Additive
	burns,corrosive	Coloring agent
Eye contact	irritation	Resin
	irritation,redness	Titanium dioxide / Ethylene glycol Additive
	irritation,eye damage	Polyoxyethylene nonylphenyl ether

Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	nausea,vomiting	Ethylene glycol / Coloring agent
	digestive disorders,diarrhea	Polyoxyethylene nonylphenyl ether
Specific effects	IARC Group 3	Resin / Additive
	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling

25%<=Xn;R22 Ethylene glycol

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Additive

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 : (October 25, 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.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M Fluorescent yellow [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010423A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Resins	Registered	Registered	Registered	10- 30
Additives	Registered	Registered	Registered	10- 30
Titanium dioxide	13463-67-7	Registered	2366755	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Coloring agent	Registered	Registered	Registered	< 10
Polyoxyethylene nonylphenyl	9016-45-9	Registered	Registered	< 1

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Resin>
PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.
<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage
<Polyoxyethylene nonylphenyl ether>
MAJOR HEALTH HAZARDS; eye irritation

4. FIRST-AID MEASURES

Inhalation:
Not applicable.
(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable	: regular dry chemical, carbon dioxide, water, regular foam.
Large fires	: Use regular foam or flood with fine water spray.
Fire fighting	: The Products is no flammable. 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	:	Wipe off by dry cloth and wash with water.
	:	In accordance with national, state and local regulations.

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	:	Not available.
Safe handling advice	:	Not available.

Storage:

Technical measures	:	Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition	:	Avoid direct sunlight.
	:	Do not leave the products in high temperature space.
	:	Recommended temperature: 0-30 C.
Incompatible products	:	(Information of components.)

oxidizing materials	Resin
	Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide
oxidizing materials, bases, acids,	Ethylene glycol
halogens, acids, combustible materials,	Additive

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2)	Titanium dioxide Additive
ACGIH	10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica)	Titanium dioxide Ethylene glycol Additive
EC	6mg/m3 52mg/m3(20ppm) EC MAK TWA(skin), 104mg/m3(40ppm) EC MAK STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state	: Liquid.
Color	: Fluorescent yellow.
Odor	: None odor.
pH	: 8.0
Boiling point	: Not available. [Water/ 100 C]
Melting point	: <-10 C
Flash point	: Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature	: Not applicable. [Ethylene glycol/ 398 C]
Explosion limits	: Not applicable.
	[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density	: about 1.2 / 25 C
Vapor density (air=1)	: Not available. [Ethylene glycol/ 2.1]
Solubility in water	: Soluble.
Evaporation rate	: Not available.
Volatile	: 62%

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.)

oxidizing materials	Resin Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide

oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol
halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of nitrogen, cyanides, aldehydes, corrosive acrolein, various organic fragments	Resin
oxides of titanium.	Titanium dioxide
crystalline silica.	Additive

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	1000mg/kg-Mouse	Resin
	>24000mg/kg-Rat	Titanium dioxide
	4700mg/kg-Rat	Ethylene glycol
	3160mg/kg-Rat	Additive
	550mg/kg-Rat	Coloring agent
	1310mg/kg-Rat	Polyoxyethylene nonylphenyl ether
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects	Irritant;inhalation, skin, eye	Ethylene glycol
	Irritant;eye	Polyoxyethylene nonylphenyl ether

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
pneumoconiosis	Additive

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Resin / Titanium dioxide
		Ethylene glycol / Additive
	irritation	Polyoxyethylene nonylphenyl ether
Skin contact	mechanical abrasion,irritation	Resin
	irritation	Polyoxyethylene nonylphenyl ether
	irritation,dry	Ethylene glycol / Additive
Eye contact	irritation	Resin
	irritation,redness	Titanium dioxide / Ethylene glycol
		Additive
	irritation,eye damage	Polyoxyethylene nonylphenyl ether
Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	nausea,vomiting	Ethylene glycol
	digestive disorders,diarrhea	Polyoxyethylene nonylphenyl ether

Specific effects	IARC Group 3	Resin / Additive
	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling

25%<=Xn;R22 Ethylene glycol

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Additive

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 : (October 25, 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.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M Fluorescent orange [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010424A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Resins	Registered	Registered	Registered	10- 30
Additives	Registered	Registered	Registered	10- 30
Titanium dioxide	13463-67-7	Registered	2366755	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Coloring agents	Registered	Registered	Registered	< 10
Polyoxyethylene nonylphenyl	9016-45-9	Registered	Registered	< 1

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Resin>
PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.
<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage
<Polyoxyethylene nonylphenyl ether>
MAJOR HEALTH HAZARDS; eye irritation

4. FIRST-AID MEASURES

Inhalation:
Not applicable.
(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable	: regular dry chemical, carbon dioxide, water, regular foam.
Large fires	: Use regular foam or flood with fine water spray.
Fire fighting	: The Products is no flammable. 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	:	Wipe off by dry cloth and wash with water.
	:	In accordance with national, state and local regulations.

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	:	Not available.
Safe handling advice	:	Not available.

Storage:

Technical measures	:	Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition	:	Avoid direct sunlight.
	:	Do not leave the products in high temperature space.
	:	Recommended temperature: 0-30 C.
Incompatible products	:	(Information of components.)

oxidizing materials	Resin / Coloring agent Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide
oxidizing materials, bases, acids,	Ethylene glycol
halogens, acids, combustible materials,	Additive

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2)	Titanium dioxide Additive
ACGIH	10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica)	Titanium dioxide Ethylene glycol Additive
EC	6mg/m3 52mg/m3(20ppm) EC MAK TWA(skin), 104mg/m3(40ppm) EC MAK STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state : Liquid.
Color : Fluorescent orange.
Odor : None odor.
pH : 8.0
Boiling point : Not available. [Water/ 100 C]
Melting point : <-10 C
Flash point : Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature : Not applicable. [Ethylene glycol/ 398 C]
Explosion limits : Not applicable.
[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density : about 1.2 / 25 C
Vapor density (air=1) : Not available. [Ethylene glycol/ 2.1]
Solubility in water : Soluble.
Evaporation rate : Not available.
Volatile : 61%

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.)

oxidizing materials	Resin / Coloring agent Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide
oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol
halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of nitrogen, cyanides, aldehydes, corrosive acrolein, various organic fragments	Resin
oxides of titanium.	Titanium dioxide
crystalline silica.	Additive

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	1000mg/kg-Mouse	Resin
	>24000mg/kg-Rat	Titanium dioxide
	4700mg/kg-Rat	Ethylene glycol
	3160mg/kg-Rat	Additive
	2950mg/kg-Mouse	Coloring agent
	550mg/kg-Rat	
	1310mg/kg-Rat	Polyoxyethylene nonylphenyl ether
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects	Irritant;inhalation, skin, eye	Ethylene glycol
	Irritant;eye	Polyoxyethylene nonylphenyl ether

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
pneumoconiosis	Additive

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Resin / Titanium dioxide Ethylene glycol / Additive
	irritation	Polyoxyethylene nonylphenyl ether
Skin contact	mechanical abrasion,irritation	Resin
	irritation	Polyoxyethylene nonylphenyl ether
	burns,corrosive	Coloring agent
	irritation,dry	Ethylene glycol / Additive
Eye contact	irritation	Resin
	irritation,redness	Titanium dioxide / Ethylene glycol Additive
	irritation,eye damage	Polyoxyethylene nonylphenyl ether

Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	nausea,vomiting	Ethylene glycol / Coloring agent
	digestive disorders,diarrhea	Polyoxyethylene nonylphenyl ether
Specific effects	IARC Group 3	Resin / Additive
	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling

25%<=Xn;R22 Ethylene glycol

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Additive

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 : (October 25, 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.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M Fluorescent green [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010425A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Resins	Registered	Registered	Registered	10- 30
Additives	Registered	Registered	Registered	10- 30
Titanium dioxide	13463-67-7	Registered	2366755	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Coloring agents	Registered	Registered	Registered	< 10
Polyoxyethylene nonylphenyl	9016-45-9	Registered	Registered	< 1

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Resin/ Coloring agent>
PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.
<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage
<Polyoxyethylene nonylphenyl ether>
MAJOR HEALTH HAZARDS; eye irritation

4. FIRST-AID MEASURES

Inhalation:
Not applicable.
(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable	: regular dry chemical, carbon dioxide, water, regular foam.
Large fires	: Use regular foam or flood with fine water spray.
Fire fighting	: The Products is no flammable. 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	:	Wipe off by dry cloth and wash with water.
	:	In accordance with national, state and local regulations.

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	:	Not available.
Safe handling advice	:	Not available.

Storage:

Technical measures	:	Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition	:	Avoid direct sunlight.
	:	Do not leave the products in high temperature space.
	:	Recommended temperature: 0-30 C.
Incompatible products	:	(Information of components.)

oxidizing materials	Resin / Coloring agent Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide
oxidizing materials, bases, acids,	Ethylene glycol
halogens, acids, combustible materials,	Additive

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2) 5mg/m3(Respirable flaction) 15mg/m3(Total dust) [Nuisance Dust]	Titanium dioxide Additive Coloring agent
ACGIH	10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica) 10mg/m3 TWA	Titanium dioxide Ethylene glycol Additive Coloring agent
EC	6mg/m3 52mg/m3(20ppm) EC MAK TWA(skin), 104mg/m3(40ppm) EC MAK STEL(skin)	Titanium dioxide Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state : Liquid.
Color : Fluorescent green.
Odor : None odor.
pH : 8.0
Boiling point : Not available. [Water/ 100 C]
Melting point : <-10 C
Flash point : Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature : Not applicable. [Ethylene glycol/ 398 C]
Explosion limits : Not applicable.
[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density : about 1.2 / 25 C
Vapor density (air=1) : Not available. [Ethylene glycol/ 2.1]
Solubility in water : Soluble.
Evaporation rate : Not available.
Volatile : 63%

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.)

oxidizing materials	Resin / Coloring agent Polyoxyethylene nonylphenyl ether
metals	Titanium dioxide
oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol
halogens, acids, combustible materials, metals, metal salts, oxidizing materials	Additive

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of nitrogen, cyanides, aldehydes, corrosive acrolein, various organic fragments miscellaneous decomposition products.	Resin
oxides of titanium.	Titanium dioxide
oxides of nitrogen.	Coloring agent
crystalline silica.	Additive

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	1000mg/kg-Mouse	Resin
	>24000mg/kg-Rat	Titanium dioxide
	4700mg/kg-Rat	Ethylene glycol
	3160mg/kg-Rat	Additive
	550mg/kg-Rat	Coloring agent
	>5000mg/kg-Rat	
	1310mg/kg-Rat	Polyoxyethylene nonylphenyl ether
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects	Irritant;inhalation, skin, eye	Ethylene glycol
	Irritant;eye	Polyoxyethylene nonylphenyl ether

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).	Ethylene glycol
pneumoconiosis	Additive

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide Ethylene glycol / Additive
	headache,nausea,irritation,cough	Resin
	irritation	Coloring agent Polyoxyethylene nonylphenyl ether
Skin contact	mechanical abrasion,irritation	Resin
	irritation	Polyoxyethylene nonylphenyl ether
	irritation,dry	Ethylene glycol / Additive
Eye contact	irritation	Resin / Coloring agent
	irritation,redness	Titanium dioxide / Ethylene glycol Additive
	irritation,eye damage	Polyoxyethylene nonylphenyl ether

Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	digestive discomfort	Resin
	nausea,vomiting	Ethylene glycol
	gastric disturbances	Coloring agent
	digestive disorders,diarrhea	Polyoxyethylene nonylphenyl ether
Specific effects	IARC Group 3	Resin / Additive
	IARC Group 2B	Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling

25%<=Xn;R22 Ethylene glycol

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Additive

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 : (October 25, 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.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-5M Fluorescent pink [Chalk marker]

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.

Creation Date : October 25, 2011
Revision Date
File No. : 010426A Rev.2.5.01.01

2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Resins	Registered	Registered	Registered	10- 30
Additives	Registered	Registered	Registered	10- 30
Titanium dioxide	13463-67-7	Registered	2366755	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Polyoxyethylene nonylphenyl	9016-45-9	Registered	Registered	< 1
Coloring agent	Registered	Registered	Registered	< 1

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

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Resin>
PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.
<Ethylene glycol>
MAJOR HEALTH HAZARDS: respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, nerve damage, kidney damage
<Polyoxyethylene nonylphenyl ether>
MAJOR HEALTH HAZARDS; eye irritation

4. FIRST-AID MEASURES

Inhalation:
Not applicable.
(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

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:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.
[Ink quantity of product : about 5.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable	: regular dry chemical, carbon dioxide, water, regular foam.
Large fires	: Use regular foam or flood with fine water spray.
Fire fighting	: The Products is no flammable. 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	:	Wipe off by dry cloth and wash with water.
	:	In accordance with national, state and local regulations.

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	:	Not available.
Safe handling advice	:	Not available.

Storage:

Technical measures	:	Keep away from oxidizing materials, ignition sources and high temperature.
Storage condition	:	Avoid direct sunlight.
	:	Do not leave the products in high temperature space.
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metals	Titanium dioxide
oxidizing materials, bases, acids,	Ethylene glycol
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Melting point : <-10 C
Flash point : Not applicable. [Ethylene glycol/ 111 C]
Autoignition temperature : Not applicable. [Ethylene glycol/ 398 C]
Explosion limits : Not applicable.
[Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
Density : about 1.2 / 25 C
Vapor density (air=1) : Not available. [Ethylene glycol/ 2.1]
Solubility in water : Soluble.
Evaporation rate : Not available.
Volatile : 62%

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Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

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	Irritant;eye	Polyoxyethylene nonylphenyl ether

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	irritation	Polyoxyethylene nonylphenyl ether
	irritation,dry	Ethylene glycol / Additive
Eye contact	irritation	Resin
	irritation,redness	Titanium dioxide / Ethylene glycol Additive
	irritation,eye damage	Polyoxyethylene nonylphenyl ether
Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	nausea,vomiting	Ethylene glycol
	digestive disorders,diarrhea	Polyoxyethylene nonylphenyl ether

Specific effects	IARC Group 3	Resin / Additive
	IARC Group 2B	Titanium dioxide

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