Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K Black [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010260A_Aus Rev. 3.6.06.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECS No.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Carbon Black	1333-86-4	Registered	2156099	< 10
Resin	Registered	Registered	Registered	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Ethyl alcohol	64-17-5	Registered	2005786	< 10
2-Propanol	67-63-0	Registered	2006617	< 10

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.6g]

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 infants.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 : Not available. Packaging materials : Not applicable.

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Revision Date: March 7, 201

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	3.5mg/m3 TWA	Carbon Black
	1000ppm TWA	Ethyl alcohol
	400 ppm TWA, 500ppm STEL	2-Propanol
ACGIH	3.5mg/m3 TWA	Carbon Black
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
	200ppm TWA, 400ppm STEL	2-Propanol
EC	3.5mg/m3 TWA	Carbon Black
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Black.
Odor : Faint odor.
pH : about 8.5

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble.

Evaporation rate : Not available.

Volatile : 78-81%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>10000mg/kg-Rat	Carbon Black
7	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
	3600mg/kg-Mouse	2-Propanol
Inhalation LC50	20000ppm-10H-Rat	Ethyl alcohol
	11100ppm-4H-Mouse	2-Propanol
Skin LD50	>3000mg/kg-Rabbit	Carbon Black
	9530uL/kg-Rabbit	Ethylene glycol
	12800mg/kg-Rabbit	2-Propanol
Local effects	Irritant;inhalation, skin	Carbon Black
	Irritant;inhalation, skin, eye	Ethylene glycol / Ethyl alcohol
	Irritant; inhalation, eye	2-Propanol

Chronic toxicity and long term toxicity

Lungs may be affected by repeated or prolonged exposure at very high concentrations. Respiratory disorders.

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

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.

Carbon Black

Ethylene glycol

Ethyl alcohol

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

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Inhalation	irritation	Carbon Black / Resin
	irritation,cough	Ethylene glycol / Ethyl alcohol
	irritation,nausea	2-Propanol
Skin contact	irritation	Carbon Black / Resin
	irritation,dry	Ethylene glycol / Ethyl alcohol
	irritation, absorption	2-Propanol
Eye contact	mechanical irritation,	Carbon Black
•	discoloration of lids	
	irritation	Resin
	irritation,redness	Ethylene glycol / Ethyl alcohol
	irritation,pain	2-Propanol
Ingestion	nausea,vomiting	Ethylene glycol
	rash,vomiting	Ethyl alcohol
	nausea,stomach pain	2-Propanol
pecific effects	IARC Group 2B	Carbon Black
	IARC Group 3	2-Propanol

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging: Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Carbon Black / Ethylene glycol / Ethyl alcohol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Carbon Black / Ethylene glycol / 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: (March 7, 2014). 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: PC-8K Red [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010261A_Aus Rev. 3.6.08.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts: Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

Creation Date: August 24, 2001 2/5

Revision Date : March 7, 2014

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 3.7g]

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 infants. : 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 : Not available. Packaging materials : Not applicable. 3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust)	Titanium dioxide
	1000ppm TWA	Ethyl alcohol
ACGIH	10mg/m3 TWA	Titanium dioxide
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

ſ]: Information of components.

Physical state and form : Liquid. : Red.Color Odor : Faint odor. рН : about 8.2

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 72-75%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
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).

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.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

	_	
Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol
		Ethyl alcohol
	,	
	irritation	Coloring agent
	headache,nausea	Resin
Skin contact	redness,swelling of skin	Coloring agent
	irritation	Resin
	irritation,dry	Ethylene glycol / Ethyl alcohol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
	,	Ethyl alcohol
	irritation	Resin
Ingestion	irritation physiologically inert,intestinal	Resin Titanium dioxide
Ingestion		
Ingestion	physiologically inert,intestinal	
Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
Ingestion	physiologically inert,intestinal obstruction nausea,vomiting digestive discomfort	Titanium dioxide Coloring agent Resin
Ingestion	physiologically inert,intestinal obstruction nausea,vomiting digestive discomfort nausea,vomiting	Titanium dioxide Coloring agent Resin Ethylene glycol
Ingestion	physiologically inert,intestinal obstruction nausea,vomiting digestive discomfort	Titanium dioxide Coloring agent Resin

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

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

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 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: (March 7, 2014). 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: PC-8K Blue [POSCA]

JAPAN

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

: 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN Address Telefax number Telephone number : 03-3458-6281 : 03-3450-0363

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 : March 7, 2014 Revision Date

File No. : 010262A_Aus Rev. 3.6.06.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECS No.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Resins	Registered	Registered	Registered	< 10
			Polymer	
Ethyl alcohol	64-17-5	Registered	2005786	< 10
2-Propanol	67-63-0	Registered	2006617	< 10
Coloring agents	Registered	Registered	Registered	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
Silica (amorphous)	7631-86-9	Registered	2315454	< 10
Additive	Registered	Registered	Registered	< 10

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

2/5

Revision Date: March

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.

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 4.1g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

: Use regular foam or flood with fine water spray. Large fires

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 infants. 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 : Not available.
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 TWA 400 ppm TWA, 500ppm STEL 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust] 5mg/m3(as Mo), 1mg/m3(as W)	Titanium dioxide Ethyl alcohol 2-Propanol Coloring agent
	[Soluble compounds] 20mppcf TWA (<1% crystalline silica)	Silica (amorphous)
ACGIH	10mg/m3 TWA	Titanium dioxide Coloring agent
	1000ppm TWA	Ethyl alcohol
	200ppm TWA, 400ppm STEL	2-Propanol
	5mg/m3(as Mo), 1mg/m3(as W) [Soluble compounds]	
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
EC	6mg/m3	Titanium dioxide
	1000ppm	Ethyl alcohol
	52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin)	Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Not available.

Odor : Blue. pH : about 8.4

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C]
Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble.

Evaporation rate : Not available.

Volatile : 63-66%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	3450mg/kg-Mouse	Ethyl alcohol
	3600mg/kg-Mouse	2-Propanol
	≧5000mg/kg-Rat	Coloring agent
	1650mg/kg-Cat	Ethylene glycol
	4700mg/kg-Rat	
	3160mg/kg-Rat	Silica (amorphous)
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
	11100ppm-4H-Mouse	2-Propanol
Skin LD50	12800mg/kg-Rabbit	2-Propanol
	9530uL/kg-Rabbit	Ethylene glycol

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

> Irritant; inhalation, eye 2-Propanol

Chronic toxicity and long term toxicity

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. .

The liquid defats the skin. The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). Ethyl alcohol

2-Propanol Ethylene glycol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethyl alcohol Ethylene glycol / Silica (amorphous)
	irritation	Resin / Coloring agent
	irritation,nausea	2-Propanol
Skin contact	irritation	Resin
	irritation,dry	Ethyl alcohol / Ethylene glycol
		Silica (amorphous)
	irritation,absorption	2-Propanol
Eye contact	irritation,redness	Titanium dioxide / Ethyl alcohol
-		Ethylene glycol / Silica (amorphous)
	irritation	Resin / Coloring agent
	irritation,pain	2-Propanol

Ingestion physiologically inert, Titanium dioxide

intestinal obstruction

rash,vomiting
Rash,vomiting
Rash,vomiting
Rash,vomiting
Rash,vomiting
Ethyl alcohol
2-Propanol
Goloring agent
Rash,vomiting
Ethylene glycol

Specific effects IARC Group 2B Titanium dioxide

IARC Group 3 2-Propanol / Silica (amorphous)

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / 2-Propanol / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over 2-Propanol / Ethylene glycol / Silica (amorphous)

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 7, 2014). 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: PC-8K Green [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010263A_Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

Creation Date: August 24, 2001 2/5

Revision Date : March 7, 2014

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 3.9g]

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 infants. 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.

: Avoid direct sunlight. Storage condition

: Do not leave the products in high temperature space.

Recommended temperature: 0-30 C.

Incompatible products : Not available. 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
	15mg/m3 PEL (Nuisance Dust)	Coloring agent
	1000ppm TWA	Ethyl alcohol
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Green. Odor : Faint odor. рΗ : about 8.2

: Not available. [Water/ 100 C] Boiling point

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. : Not available. Evaporation rate Volatile : 73-76%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	\geq 5000mg/kg-Rat	Coloring agent
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
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).

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. Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol Ethyl alcohol
	headache,nausea	Resin
	irritation	Coloring agent
Skin contact	irritation	Resin / Coloring agent
	irritation,dry	Ethylene glycol / Ethyl alcohol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
·		Ethyl alcohol
	irritation	Resin / Coloring agent
Ingestion	physiologically inert,intestinal obstruction	Titanium dioxide
	digestive discomfort	Resin
	nausea, vomiting	Coloring agent / Ethylene glycol
	rash,vomiting	Ethyl alcohol
Specific effects	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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

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

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%overEthylene glycol0.1%overEthyl 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: (March 7, 2014). 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: PC-8K Light green [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010264A_Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

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Revision Date: March 7, 2014

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 4.1g]

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 infants.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.

3/5 Creation Date : August 24, 2001

Revision Date: March 7, 2014

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available. 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
	1000ppm TWA	Ethyl alcohol
	15mg/m3 PEL (Nuisance Dust)	Coloring agent
	400 ppm TWA, 500ppm STEL	2-Propanol
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
	200ppm TWA, 400ppm STEL	2-Propanol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Light green.
Odor : Faint odor.
pH : about 8.5

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C]
Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 69-72%

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.

4/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

Materials to avoid : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

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Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
	\geq 5000mg/kg-Rat	Coloring agent
	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

Ethylene glycol

Ethyl alcohol

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).

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.

The liquid defats the skin. 2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation, cough	Titanium dioxide / Ethylene glycol
	, 6	Ethyl alcohol
	headache,nausea	Resin
	irritation	Coloring agent
	irritation,nausea	2-Propanol
Skin contact	irritation	Resin
	irritation,dry	Ethylene glycol / Ethyl alcohol
	redness,swelling	Coloring agent
	irritation, absorption	2-Propanol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
•		Ethyl alcohol
	irritation	Resin / Coloring agent
	irritation,pain	2-Propanol
Ingestion	physiologically inert,intestinal	Titanium dioxide
	obstruction	
	digestive discomfort	Resin
	nausea,vomiting	Ethylene glycol / Coloring agent
	rash,vomiting	Ethyl alcohol
	nausea,stomach pain	2-Propanol
Specific effects	IARC Group 2B	Titanium dioxide
	IARC Group 3	2-Propanol

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethylene glycol / Ethyl alcohol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List
1%over Ethylene glycol / 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: (March 7, 2014). 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: PC-8K Violet [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010265A_Aus Rev. 3.6.07.04

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts: Ink

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

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

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Revision Date: March

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.

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 3.8g]

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 infants. 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 : Not available. 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
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) EC MAK TWA(skin), 104mg/m3(40ppm) EC MAK STEL(skin)	Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Violet.
Odor : Faint odor.
pH : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [Ethylene glycol/ 111 C(CC)]
Auto ignition 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 : 72-75%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	1000mg/kg-Mouse	Resin
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	2950mg/kg-Mouse	Coloring agent
	1310mg/kg-Rat	Polyoxyethylene nonylphenyl ether
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol
	2ml/kg-Rabbit	Polyoxyethylene nonylphenyl ether
Local effects	Irritant;inhalation, skin, eye	Ethylene glycol

Irritant;eye

Ethylene glycol 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

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Resin
		Ethylene glycol
	irritation	Coloring agent
		Polyoxyethylene nonylphenyl
Skin contact	mechanical abrasion, irritation	Resin
	irritation,dry	Ethylene glycol
	burns,corrosive	Coloring agent
	irritation	Polyoxyethylene nonylphenyl ether
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
	irritation	Resin
	irritation,eye damage	Polyoxyethylene nonylphenyl ether
Ingestion	physiologically inert,intestinal	Titanium dioxide
	obstruction	
	digestive discomfort	Resin
	nausea,vomiting	Ethylene glycol / Coloring agent
	digestive disorders, diarrhea	Polyoxyethylene nonylphenyl ether
Specific effects	IARC Group 2B	Titanium dioxide
	IARC Group 3	Resin

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

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

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol

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 7, 2014). 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: PC-8K Light orange [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010266A Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

2/5 Creation Date : August 24, 2001 Revision Date : March 7, 2014

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 4.2g]

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 infants.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.

3/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

Incompatible products : Not available.
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
	1000ppm TWA	Ethyl alcohol
	400 ppm TWA, 500ppm STEL	2-Propanol
ACGIH	10mg/m3 TWA	Titanium dioxide
	1000ppm TWA	Ethyl alcohol
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	200ppm TWA, 400ppm STEL	2-Propanol
\mathbf{EC}	6mg/m3	Titanium dioxide
	1000ppm	Ethyl alcohol
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Light orange.
Odor : Faint odor.
pH : about 8.1

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 68-71%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

A .	
Acute	toxicity
ricate	UOMICIU

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
,,	3450mg/kg-Mouse	Ethyl alcohol
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3600mg/kg-Mouse	2-Propanol
	>15000mg/kg-Rat	Coloring agent
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
. 1 00 .		

Local effects Irritant; inhalation, skin, eye Ethyl alcohol / Ethylene glycol Irritant; inhalation, eye 2-Propanol

Chronic toxicity and long term toxicity

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

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethyl alcohol
		Ethylene glycol
	headache,nausea	Resin
	irritation,nausea	2-Propanol
	irritation	Coloring agent
Skin contact	irritation	Resin
	irritation,dry	Ethyl alcohol / Ethylene glycol
	irritation, absorption	2-Propanol
	redness,swelling	Coloring agent
Eye contact	irritation,redness	Titanium dioxide / Ethyl alcohol
-		Ethylene glycol
	irritation	Resin
	irritation,pain	2-Propanol
Ingestion	physiologically inert,intestinal	Titanium dioxide
	obstruction	
	digestive discomfort	Resin
	rash,vomiting	Ethyl alcohol
	nausea,vomiting	Ethylene glycol / Coloring agent
	nausea,stomach pain	2-Propanol
Specific effects	IARC Group 2B	Titanium dioxide
	IARC Group 3	2-Propanol

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over Ethylene glycol / 2-Propanol

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 7, 2014). 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: PC-8K Bright yellow [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010267A_Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts: Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.8g]

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 infants.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 : Not available. Packaging materials : Not applicable.

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Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust]	Titanium dioxide Coloring agent
	1000ppm TWA	Ethyl alcohol
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid.

Color : Bright yellow. Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 76-80%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	\geq 5000mg/kg-Rat	Coloring agent
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
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).

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. Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol Ethyl alcohol
	irritation	Coloring agent
	headache,nausea	Resin
Skin contact	redness,swelling	Coloring agent
	irritation	Resin
	irritation,dry	Ethylene glycol / Ethyl alcohol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
·		Ethyl alcohol
	irritation	Resin
Ingestion	physiologically inert,intestinal	Titanium dioxide
C	obstruction	
	nausea,vomiting	Coloring agent / Ethylene glycol
	digestive discomfort	Resin
	rash,vomiting	Ethyl alcohol
Specific effects	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 : 960820

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15. REGULATORY INFORMATION

Regulations (Information of components)

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

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 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

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K Yellow [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010268A Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.8g]

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 infants.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 : Not available.
Packaging materials : Not applicable.

3/5

Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust]	Titanium dioxide Coloring agent
	1000ppm TWA	Ethyl alcohol
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Yellow. Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 74-77%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	\geq 5000mg/kg-Rat	Coloring agent
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
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).

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.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol Ethyl alcohol
	irritation	Coloring agent
	headache,nausea	Resin
Skin contact	redness,swelling	Coloring agent
	irritation	Resin
	irritation,dry	Ethylene glycol / Ethyl alcohol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
·		Ethyl alcohol
	irritation	Resin
Ingestion	physiologically inert,intestinal	Titanium dioxide
C	obstruction	
	nausea,vomiting	Coloring agent / Ethylene glycol
	digestive discomfort	Resin
	rash,vomiting	Ethyl alcohol
Specific effects	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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%overEthylene glycol0.1%overEthyl alcohol

Hazard and safety information

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

16. OTHER INFORMATION

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K Orange [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010269A Aus Rev. 3.6.08.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

Creation Date: August 24, 2001 2/5

Revision Date : March 7, 2014

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 3.8g]

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 infants. 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.

: Avoid direct sunlight. Storage condition

: Do not leave the products in high temperature space.

Recommended temperature: 0-30 C.

Incompatible products : Not available. Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust) 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust]	Titanium dioxide Coloring agent
	1000ppm TWA	Ethyl alcohol
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin), 104mg/m3(40ppm) STEL(skin)	Ethylene glycol
	1000ppm	Ethyl alcohol
	T. T. T.	11011,1 01001101

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. : Orange. Color Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 73-76%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	\geq 5000mg/kg-Rat	Coloring agent
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

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

Chronic toxicity and long term toxicity

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

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.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol Ethyl alcohol
	headache,nausea irritation	Resin Coloring agent
Skin contact	irritation redness,swelling of skin irritation,dry	Resin Coloring agent Ethylene glycol / Ethyl alcohol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol Ethyl alcohol Resin
Ingestion	physiologically inert, intestinal obstruction digestive discomfort nausea,vomiting rash,vomiting	Titanium dioxide Resin Coloring agent / Ethylene glycol Ethyl alcohol
Specific effects	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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%overEthylene glycol0.1%overEthyl alcohol

Hazard and safety information

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

16. OTHER INFORMATION

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K Pink [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010270A Aus Rev. 3.6.07.06

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECS No.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Resins	Registered	Registered	Registered	10- 30
Ethylene glycol	107-21-1	Registered	2034733	< 10
Ethyl alcohol	64-17-5	Registered	2005786	< 10
Coloring agents	Registered	Registered	Registered	< 10
Polyoxyethylene nonylphenyl ether	9016-45-9	Registered	Registered	< 1

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

2/5 Creation Date: August 24, 2001 Revision Date: March 7, 2014

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 3.9g]

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 infants.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 : Not available.
Packaging materials : Not applicable.

3/5

Revision Date: March 7, 2014

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA	Titanium dioxide /
		Coloring agent
	1000ppm TWA	Ethyl alcohol
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	1000ppm TWA	Ethyl alcohol
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : Pink.
Odor : Faint odor.
pH : about 8.0

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 68-71%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Tiouro comicio		
Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	1000mg/kg-Mouse	Resin
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
	2950mg/kg-Mouse	Coloring agent
	1310mg/kg-Rat	Polyoxyethylene nonylphenyl ether
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol
	2ml/kg-Rabbit	Polyoxyethylene nonylphenyl ether
Local effects	Irritant;inhalation, skin, eye	Ethylene glycol / Ethyl alcohol
	Irritant;eye	Polyoxyethylene nonylphenyl ether

Chronic toxicity and long term toxicity

fatigue and lack of concentration. .

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,

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Resin /
		Ethylene glycol / Ethyl alcohol
	irritation	Coloring agent
		Polyoxyethylene nonylphenyl ether
Skin contact	mechanical abrasion,irritation	Resin
	irritation,dry	Ethylene glycol / Ethyl alcohol
	redness,swelling of skin	Coloring agent
	irritation	Polyoxyethylene nonylphenyl ether
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
		Ethyl alcohol
	irritation	Resin
	irritation,eye damage	Polyoxyethylene nonylphenyl ether
Ingestion	physiologically inert,intestinal	Titanium dioxide
	digestive discomfort	Resin
	nausea,vomiting	Ethylene glycol / Coloring agent
	rash,vomiting	Ethyl alcohol
	digestive disorders,diarrhea	Polyoxyethylene nonylphenyl ether
Specific effects	IARC Group 2B	Titanium dioxide
	IARC Group 3	Resin

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

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

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol 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

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K Light blue [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010271A_Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

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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. gestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 4.2g]

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 infants.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 : Not available. Packaging materials : Not applicable.

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Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust)	Titanium dioxide
	1000ppm TWA	Ethyl alcohol
	400 ppm TWA, 500ppm STEL	2-Propanol
	5mg/m3(Respirable fraction),	Coloring agent
	15mg/m3(Total dust) [Nuisance Dust]	
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	1000ppm TWA	Ethyl alcohol
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	200ppm TWA, 400ppm STEL	2-Propanol
EC	6mg/m3	Titanium dioxide
	1000ppm	Ethyl alcohol
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

ſ]: Information of components.

Physical state and form : Liquid. Color : Light blue. Odor : Faint odor. Hg : about 8.4

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.2 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 69-72%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

A .	
Acute	toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	3450mg/kg-Mouse	Ethyl alcohol
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3600mg/kg-Mouse	2-Propanol
<u> </u>	>5000mg/kg-Rat	Coloring agent
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
<u> </u>	11100ppm-4H-Mouse	2-Propanol
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol
	12800mg/kg-Rabbit	2-Propanol
Local effects	Irritant;inhalation, skin, eye	Ethyl alcohol / Ethylene glycol
	Irritant;inhalation, eye	2-Propanol

Irritant; inhalation, eye Chronic toxicity and long term toxicity

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

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

0	1 88	
Inhalation	irritation,cough	Titanium dioxide / Ethyl alcohol
		Ethylene glycol
	headache,nausea	Resin
	irritation,nausea	2-Propanol
	irritation	Coloring agent
Skin contact	irritation	Resin
	irritation,dry	Ethyl alcohol / Ethylene glycol
	irritation, absorption	2-Propanol
Eye contact	irritation,redness	Titanium dioxide / Ethyl alcohol
v		Ethylene glycol
	irritation	Resin / Coloring agent
	irritation,pain	2-Propanol
Ingestion	physiologically inert,intestinal	Titanium dioxide
C .	obstruction	
	digestive discomfort	Resin
	rash,vomiting	Ethyl alcohol
	nausea,vomiting	Ethylene glycol
	nausea,stomach pain	2-Propanol
	gastric disturbances	Coloring agent
pecific effects	IARC Group 2B	Titanium dioxide
	IARC Group 3	2-Propanol

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 : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over Ethylene glycol / 2-Propanol

Hazard and safety information

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

16. OTHER INFORMATION

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K Brown [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010272A_Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

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Revision Date : March 7, 2014

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 3.8g]

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 infants. 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.

: Avoid direct sunlight. Storage condition

: Do not leave the products in high temperature space.

Recommended temperature: 0-30 C.

Incompatible products : Not available. Packaging materials : Not applicable. 3/5

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	15mg/m3 TWA (Total dust)	Titanium dioxide
	5mg/m3(Respirable fraction),	Coloring agent
	15mg/m3(Total dust) [Nuisance Dust]	
	1000ppm TWA	Ethyl alcohol
ACGIH	10mg/m3 TWA	Titanium dioxide /
		Coloring agent
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	1000ppm TWA	Ethyl alcohol
EC	6mg/m3	Titanium dioxide
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	1000ppm	Ethyl alcohol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

]: Information of components.

Physical state and form : Liquid. Color : Brown. Odor : Faint odor. Нα : about 8.3

Boiling point : Not available. [Water/ 100 C]

Melting point :<-10 C

Flash point : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 3.28%, Upper flammable limit / 19.0% < Ethyl alcohol>]

Density : about 1.1 / 25 C

Vapor density (air=1) : Not available. [Ethyl alcohol/ 1.59]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 74-77%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	>5000mg/kg-Rat	Coloring agent
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3450mg/kg-Mouse	Ethyl alcohol
Inhalation LC50	6820mg/m3-4H-Rat	Titanium dioxide
	20000ppm-10H-Rat	Ethyl alcohol
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

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

Chronic toxicity and long term toxicity

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

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.

Ethylene glycol

Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethylene glycol Ethyl alcohol
	headache,nausea	Resin
	irritation	Coloring agent
Skin contact	irritation	Resin
	redness,swelling	Coloring agent
	irritation,dry	Ethylene glycol / Ethyl alcohol
Eye contact	irritation,redness	Titanium dioxide / Ethylene glycol
•		Ethyl alcohol
	irritation	Resin / Coloring agent
Ingestion	physiologically inert,intestinal	Titanium dioxide
	obstruction	
	digestive discomfort	Resin
	nausea,vomiting	Coloring agent / Ethylene glycol
	rash,vomiting	Ethyl alcohol
Specific effects	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 : 960820

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15. REGULATORY INFORMATION

Regulations (Information of components)

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

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%overEthylene glycol0.1%overEthyl alcohol

Hazard and safety information

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

16. OTHER INFORMATION

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K Grey [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010273A Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECS No.	Concentration range (wt%)
Water	7732-18-5	Registered	2317912	50- 80
Titanium dioxide	13463-67-7	Registered	2366755	10- 30
Resins	Registered	Registered	Registered	< 10
Ethyl alcohol	64-17-5	Registered	2005786	< 10
Ethylene glycol	107-21-1	Registered	2034733	< 10
2-Propanol	67-63-0	Registered	2006617	< 10
Carbon Black	1333-86-4	Registered	2156099	< 10

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

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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 4.3g]

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 infants.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 : Not available.
Packaging materials : Not applicable.

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Revision Date: March

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

or or paramet	crs (imormation of components.)	
OSHA	15mg/m3 TWA (Total dust)	Titanium dioxide
	1000ppm TWA	Ethyl alcohol
	400 ppm TWA, 500ppm STEL	2-Propanol
	3.5mg/m3 TWA	Carbon Black
ACGIH	10mg/m3 TWA	Titanium dioxide
	1000ppm TWA	Ethyl alcohol
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	200ppm TWA, 400ppm STEL	2-Propanol
	3.5mg/m3 TWA	Carbon Black
\mathbf{EC}	6mg/m3	Titanium dioxide
	1000ppm	Ethyl alcohol
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	
	3.5mg/m3 TWA	Carbon Black

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

: Information of components.

Physical state and form : Liquid. Color : Grev. Odor : Faint odor. pН : about 8.5

: Not available. [Water/ 100 C] Boiling point

Melting point : <-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.3 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 65-68%

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 : Not available. Hazardous decomposition products : Not available.

Creation Date: August 24, 2001

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Revision Date: March 7, 2014

11.TOXICOLOGICAL INFORMATION

(Information of components)

A .	
Acute	toxicity

Tioute tomicity		
Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	3450mg/kg-Mouse	Ethyl alcohol
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	3600mg/kg-Mouse	2-Propanol
<u> </u>	>10000mg/kg-Rat	Carbon Black
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
	>3000mg/kg-Rabbit	Carbon Black
Local effects	Irritant;inhalation, skin, eye	Ethyl alcohol / Ethylene glycol
	Irritant;inhalation, eye	2-Propanol
	Irritant;inhalation, skin	Carbon Black

Chronic toxicity and long term toxicity

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 substance may have effects on the central nervous

system, resulting in abnormal eye movements (nystagmus). The liquid defats the skin.

Lungs may be affected by repeated or prolonged exposure at very high concentrations. Respiratory disorders.

Ethylene glycol

2-Propanol Carbon Black

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,cough	Titanium dioxide / Ethyl alcohol
	_	Ethylene glycol
	headache,nausea	Resin
	irritation,nausea	2-Propanol
	irritation	Carbon Black
Skin contact	irritation	Resin / Carbon Black
	irritation,dry	Ethyl alcohol / Ethylene glycol
	irritation, absorption	2-Propanol
Eye contact	irritation,redness	Titanium dioxide / Ethyl alcohol
•		Ethylene glycol
	irritation	Resin
	irritation,pain	2-Propanol
	mechanical	Carbon Black
	irritation, discoloration of lids	
Ingestion	physiologically inert,intestinal	Titanium dioxide
	obstruction	
	digestive discomfort	Resin
	rash, vomiting	Ethyl alcohol
	nausea,vomiting	Ethylene glycol
	nausea,stomach pain	2-Propanol
pecific effects	IARC Group 2B	Titanium dioxide / Carbon Black
	IADC Croup 2	9-Duonanal

Sp IARC Group 3

2-Propanol

12. ECOLOGICAL INFORMATION

Not available.

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13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging: Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS)

: Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol / Carbon Black

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

0.1%over Ethyl alcohol

1%over Ethylene glycol / 2-Propanol / Carbon Black

Hazard and safety information

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

16. OTHER INFORMATION

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PC-8K White [POSCA]

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

AUSTRALIA

Australian importer : Mitsubishi Pencil Australia

BAN : 31 085 515 671

Address : 674 Lorimar 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 : August 24, 2001 Revision Date : March 7, 2014

File No. : 010274A Aus Rev. 3.6.07.05

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements :-

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

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

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

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

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

Creation Date: August 24, 2001 2/5

Revision Date : March 7, 2014

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 4.3g]

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 infants. 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.

: Avoid direct sunlight. Storage condition

: Do not leave the products in high temperature space.

Recommended temperature: 0-30 C.

Incompatible products : Not available. 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
	1000ppm TWA	Ethyl alcohol
	400 ppm TWA, 500ppm STEL	2-Propanol
ACGIH	10mg/m3 TWA	Titanium dioxide
	1000ppm TWA	Ethyl alcohol
	100mg/m3 ceiling (particulate)(aerosol)	Ethylene glycol
	200ppm TWA, 400ppm STEL	2-Propanol
\mathbf{EC}	6mg/m3	Titanium dioxide
	1000ppm	Ethyl alcohol
	52mg/m3(20ppm) TWA(skin),	Ethylene glycol
	104mg/m3(40ppm) STEL(skin)	

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[]: Information of components.

Physical state and form : Liquid.
Color : White.
Odor : Faint odor.
pH : about 8.1

Boiling point : Not available. [Water/ 100 C]

Melting point : <-10 C

Flash point : Not applicable. [2-Propanol/ 11.7 C] Auto ignition temperature : Not applicable. [Ethyl alcohol/ 363 C]

Explosion limits : Not applicable.

[Lower flammable limit / 2.0%, Upper flammable limit / 12.7% <2-Propanol>]

Density : about 1.3 / 25 C

Vapor density (air=1) : Not available. [2-Propanol/ 2.07-2.10]

Solubility in water : Soluble. Evaporation rate : Not available. Volatile : 65-68%

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 : Not available. Hazardous decomposition products : Not available.

11.TOXICOLOGICAL INFORMATION

(Information of components)

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Ingestion LD50	>24000mg/kg-Rat	Titanium dioxide
	3450mg/kg-Mouse	Ethyl alcohol
	1650mg/kg-Cat、	Ethylene glycol
	4700mg/kg-Rat	
	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
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Local effects Irritant; inhalation, skin, eye Irritant; inhalation, eye

Ethyl alcohol / Ethylene glycol

2-Propanol

Chronic toxicity and long term toxicity

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

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

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

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

5/5

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

Contaminated packaging: Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960820

15. REGULATORY INFORMATION

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