

202242E

MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2015/06/11

22100-9340

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PSX-20 Gold (Ink)
 [File No.] 202242E
 [Date of issue] 2015/06/11
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Flammable Liquids : Category2

HEALTH HAZARDS

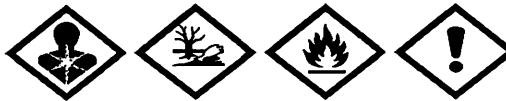
Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Category3
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Classification not possible
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category3
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Classification not possible

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Category2
 Hazard to the Aquatic Environment (Chronic) : Category2

[Label elements]

Pictogram :



Signal Word :

: Danger

Hazard Statement :

: Highly flammable liquid and vapour
 : Harmful if inhaled
 : Causes mild skin irritation
 : Causes serious eye damage
 : May cause genetic defects
 : May damage fertility or the unborn child
 : May cause respiratory irritation; or May cause drowsiness or dizziness
 : Causes damage to organs through prolonged or repeated exposure
 : Toxic to aquatic life

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- Precautionary Statement**
- : Toxic to aquatic life with long lasting effect
 - : Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
 - : Keep container tightly closed.
 - : Keep cool.
 - : Ground/bond container and receiving equipment.
 - : Use explosion-proof equipment.
 - : Use only non-sparking tools.
 - : Take precautionary measures against static discharge.
 - : Do not breathe dust/vapours etc..
 - : Wash the body after handling.
 - : Do not eat, drink or smoke when using this product.
 - : Use in a well-ventilated area.
 - : Avoid release to the environment.
 - : Wear protective gloves/protective clothing/eye protection/face protection.
 - : Use personal protective equipment as required. (Refer to Section 8)
 - : Collect spillage.
 - : IF ON SKIN(or hair): Remove immediately all contaminated clothing. Rinse skin with water.
 - : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - : IF exposed or concerned: Get medical advice/attention.
 - : If skin irritation occurs: Get medical advice/attention.
 - : If eye irritation persists: Get medical advice/attention.
 - : In case of fire: Use appropriate means for fire extinguishing in accordance with all current regulations and standards.
 - : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
 - : Store locked up.
 - : Store in a well-ventilated place. Keep container tightly closed.
 - : Store in a well-ventilated place. Keep cool.
 - : Dispose in accordance with all current regulations and standards.
- [Other hazards] No information available.

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	Mixture	
[Chemical nature]	[Component parts]	Ink
Chemical name	Cas No.	Concentration range(wt%)
Copper(as bronze powder)	7440-50-8	10-30
Ethanol	64-17-5	10-30
Propanol, 1-methoxy-	107-98-2	10-30
Resin	Trade secret	10-30
Zinc (as bronze powder)	7440-66-6	<10

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4. First aid measures**[Description of first aid measures]**

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Then get medical attention immediately.
- Skin contact** : Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute.
: Consult medical advice depending on the symptoms.
: Never take anything by mouth to an unconscious person. Consult medical advice immediately.
- Inhalation** : Remove from exposure area to fresh air immediately and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

- [Extinguishing media]** Regular dry chemical, carbon dioxide, water, alcohol resistant foam
- [Special hazards arising from the substance or mixture]**
No further relevant information available.
- [Advice for firefighters]** Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.
Wear suitable protective equipment.

6. Accidental release measures

- [Personal precautions, protective equipment and emergency procedures]**
Rope off the area to contain the leak and prohibit entrance except for authorized persons.
Wear appropriate protection gear.
Do not work in the leeward.
- [Environmental precautions]** Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.
Do not allow leaked material to pollute rivers, lakes, etc.
- [Methods and material for containment and cleaning up]**
Wipe off by dry cloth and wash with water.
Dispose of pollution or waste in accordance with national, state and local regulations.
- [Reference to other sections]** No information available.

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7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.
 Avoid contact with skin and eyes.
 Ventilate the room in case of using and don't breathe the vapor.
 Recap after use, and keep out of the reach of childrens.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.

Use a container to fill up at the time of shipment.

Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Copper(as bronze powder)	-	(TWA)1mg/m3
Ethanol	-	(TWA)1000ppm
Propanol, 1-methoxy-	-	(TWA)100ppm (STEL)150ppm

[Exposure controls]

Protective equipment	: Ventilate the room in case of using it and don't breathe the vapor. Do mechanical exhaust as needed.
Respiratory protection	: It is not particularly necessary, but the person of the erethism recommends in particular the wearing of the tool for protection for breathing from an aspect of the inhalation defense.
Hands protection	: Wear solvent-resistant-related protection gloves by all means.
Eye protection	: Wear protection glasses by all means.
Skin protection	: Wear solvent-resistant-related protection clothes by all means.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Gold
State	: Liquid
Odor	: Alcohol odor
pH	: No information available.
Boiling point	: No information available.[Ethanol 78.3°C]
Melting point	: No information available.
Flash point	: No information available.[Ethanol 13.0°C]
Autoignition temperature	: No information available.[Propanol, 1-methoxy- 270.0°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.2
Solubility in water	: No information available.
Evaporation rate	: No information available.

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Volatile : >50%
 [Other information] No information available.

10. Stability and reactivity

[Chemical stability] This mixture is stable in normal temperature, a condition of the pressure.
 [Reactivity] No data available.
 [Conditions to avoid] Avoid heat, flames, sparks and other sources of ignition.
 Avoid direct sunlight and high temperature.
 [Incompatible materials] No information available.
 [Hazardous decomposition products] No information available.
 [Possibility of hazardous reactions] No information available.

11. Toxicological information

[Information on toxicological effects]
 Acute toxicity(oral)
 Not classified : >2000 mg/kg (estimate value)
 Acute toxicity(skin)
 Not classified : >2000 mg/kg (estimate value)
 Acute toxicity(inhalation:vapours)
 Not classified : >20 mg/L (estimate value)
 Skin corrosion/irritation
 Propanol, 1-methoxy- : Category3
 Serious eye damage/Eye Irritation
 Zinc (as bronze powder) : Category2B
 Ethanol : Category2A
 Propanol, 1-methoxy- : Category2
 Respiratory sensitizer
 No information available.
 Skin sensitizer
 No information available.
 Germ cell mutagenicity
 Ethanol : Category1B
 Carcinogenicity
 No information available.
 Toxic to reproduction
 Ethanol : Category1A
 Specific target organ systemic toxicity(single exposure)
 Ethanol : Category3
 Propanol, 1-methoxy- : Category3

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Specific target organ systemic toxicity(repeated exposure)

Copper(as bronze powder) : Category1
 Ethanol : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

Zinc(as bronze powder) : Category1

Hazard to the Aquatic Environment (Chronic)

Copper(as bronze powder) : Category4
 Zinc(as bronze powder) : Category1

12. Ecological information

No information available.

13. Disposal considerations**[Waste treatment methods]**

Dispose in accordance with all current regulations and standards.
 Do not allow it to flow into the drainages with waste fluid.

14. Transport information**[UN number, proper shipping name]**

1263 Paint

[Transport hazard class(es)]

Class3 Flammable liquids

[Packing group]

II

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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MITSUBISHI PENCIL CO., LTD.

[Date of issue]: 2015/06/11

SAFETY DATA SHEET

1. Product and Company Identification

[Product name] PSX-20 Silver (Ink)
 [File No.] 202243E
 [Date of issue] 2015/06/11
 [Details of Manufacture]

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
 (Only office hour are available.)

2. Hazards identification

[Classification of the substance or mixture]

PHYSICO-CHEMICAL HAZARDS

Flammable Liquids : Category2

HEALTH HAZARDS

Acute toxicity(oral) : Not classified
 Acute toxicity(skin) : Not classified
 Acute toxicity(inhalation steam) : Not classified
 Skin corrosion/irritation : Category3
 Serious eye damage/Eye Irritation : Category2
 Respiratory sensitizer : Classification not possible
 Skin sensitizer : Classification not possible
 Germ cell mutagenicity : Category1
 Carcinogenicity : Classification not possible
 Toxic to reproduction : Category1
 Specific target organ systemic toxicity(single exposure) : Category3
 Specific target organ systemic toxicity(repeated exposure) : Category1
 Aspiration hazard : Not classified

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Category3
 Hazard to the Aquatic Environment (Chronic) : Category3

[Label elements]

Pictogram



Signal Word

: Danger

Hazard Statement

: Highly flammable liquid and vapour
 : Harmful if inhaled
 : Causes mild skin irritation
 : Causes serious eye damage
 : May cause genetic defects
 : May damage fertility or the unborn child
 : May cause respiratory irritation; or May cause drowsiness or dizziness
 : Causes damage to organs through prolonged or repeated exposure
 : Harmful to aquatic life

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- Precautionary Statement**
- : Harmful to aquatic life with long lasting effect
 - : Keep away from heat/sparks/open flames/hot surfaces. –No smoking.
 - : Keep container tightly closed.
 - : Keep cool.
 - : Ground/bond container and receiving equipment.
 - : Use explosion-proof equipment.
 - : Use only non-sparking tools.
 - : Take precautionary measures against static discharge.
 - : Do not breathe dust/vapours etc..
 - : Wash the body after handling.
 - : Do not eat, drink or smoke when using this product.
 - : Use in a well-ventilated area.
 - : Avoid release to the environment.
 - : Wear protective gloves/protective clothing/eye protection/face protection.
 - : Use personal protective equipment as required. (Refer to Section 8)
 - : IF ON SKIN(or hair): Remove immediately all contaminated clothing. Rinse skin with water.
 - : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easys to do. Continue rinsing.
 - : IF exposed or concerned: Get medical advice/attention.
 - : If skin irritation occurs: Get medical advice/attention.
 - : If eye irritation persists: Get medical advice/attention.
 - : In case of fire: Use appropriate means for fire extinguishing in accordance with all current regulations and standards.
 - : IF INHALED:Remove victim to fresh air and keep at rest in a position comfortable for breathing.Get medical advice/attention if you feel unwell.
 - : Store locked up.
 - : Store in a well-ventilated place. Keep container tightly closed.
 - : Store in a well-ventilated place. Keep cool.
 - : Dispose in accordance with all current regulations and standards.
- [Other hazards] No information available.

3. Composition/information on ingredients

[Chemical nature]	[Component parts]	Mixture	
Chemical name	Cas No.	Ink	Concentration range(wt%)
Ethanol	64-17-5		30-50
Propanol, 1-methoxy-	107-98-2		30-50
Resin	Trade secret		10-30
Aluminum (as paste)	7429-90-5		<10
Petroleum solvents	Trade secret		<10

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4. First aid measures**[Description of first aid measures]**

- Eye contact** : Flush eyes with plenty of water for at least 15 minutes.
: Take off the contact lens if possible
: Then get medical attention immediately.
- Skin contact** : Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.
: Consult medical advice depending on the symptoms.
: Thoroughly clean and dry contaminated clothing and shoes before reuse.
- Ingestion** : Rinse mouth, give plenty of water to dilute.
: Consult medical advice depending on the symptoms.
: Never take anything by mouth to an unconscious person. Consult medical advice immediately.
- Inhalation** : Remove from exposure area to fresh air immediately and rest.
: Consult medical advice depending on the symptoms.

[Most important symptoms and effects, both acute and delayed]

No information available.

[Indication of any immediate medical attention and special treatment needed]

No information available.

5. Firefighting measures

- [Extinguishing media]** Regular dry chemical, carbon dioxide, water, alcohol resistant foam
- [Special hazards arising from the substance or mixture]**
No further relevant information available.
- [Advice for firefighters]** Stay upwind and keep out of low areas and avoid inhalation of material or combustion by-products.
Wear suitable protective equipment.

6. Accidental release measures

- [Personal precautions, protective equipment and emergency procedures]**
Rope off the area to contain the leak and prohibit entrance except for authorized persons.
Wear appropriate protection gear.
Do not work in the leeward.
- [Environmental precautions]** Collect leaked material in empty container after leading outflow to a safe area containing earth and sand.
Do not allow leaked material to pollute rivers, lakes, etc.
- [Methods and material for containment and cleaning up]**
Wipe off by dry cloth and wash with water.
Dispose of pollution or waste in accordance with national, state and local regulations.
- [Reference to other sections]** No information available.

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7. Handling and storage**[Precautions for safe handling]**

Do not lick or swallow the ink.
 Avoid contact with skin and eyes.
 Ventilate the room in case of using and don't breathe the vapor.
 Recap after use, and keep out of the reach of childrens.

[Conditions for safe storage, including any incompatibilities]

Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.
 Use a container to fill up at the time of shipment.
 Recommended temperature : 0-40°C

[Specific end use(s)]

No information available.

8. Exposure controls/personal protection**[Control parameters]**

Chemical name	OSHA	ACGIH
Aluminum (as paste)	-	(TWA)10ppm
Ethanol	-	(TWA)1000ppm
Propanol, 1-methoxy-	-	(TWA)100ppm (STEL)150ppm

[Exposure controls]

Protective equipment	: Ventilate the room in case of using it and don't breathe the vapor. Do mechanical exhaust as needed.
Respiratory protection	: It is not particularly necessary, but the person of the erethism recommends in particular the wearing of the tool for protection for breathing from an aspect of the inhalation defense.
Hands protection	: Wear solvent-resistant-related protection gloves by all means.
Eye protection	: Wear protection glasses by all means.
Skin protection	: Wear solvent-resistant-related protection clothes by all means.

9. Physical and chemical properties**[Information on basic physical and chemical properties]**

Color	: Silver
State	: Liquid
Odor	: Alcohol odor
pH	: No information available.
Boiling point	: No information available.[Ethanol 78.3°C]
Melting point	: No information available.
Flash point	: No information available.[Ethanol 13.0°C]
Autoignition temperature	: No information available.[Propanol, 1-methoxy- 270.0°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.0
Solubility in water	: No information available.
Evaporation rate	: No information available.
Volatile	: >60%

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[Date of issue]: 2015/06/11

[Other information]

No information available.

10. Stability and reactivity

[Chemical stability]

This mixture is stable in normal temperature, a condition of the pressure.

[Reactivity]

No data available.

[Conditions to avoid]

Avoid heat, flames, sparks and other sources of ignition.

Avoid direct sunlight and high temperature.

[Incompatible materials]

No information available.

[Hazardous decomposition products]

No information available.

[Possibility of hazardous reactions]

No information available.

11. Toxicological information

[Information on toxicological effects]

Acute toxicity(oral)

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(skin)

Not classified : >2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Not classified : >20 mg/L (estimate value)

Skin corrosion/irritation

Propanol, 1-methoxy- : Category3

Petroleum solvents : Category2

Serious eye damage/Eye Irritation

Ethanol : Category2A

Propanol, 1-methoxy- : Category2

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

Ethanol : Category1B

Carcinogenicity

No information available.

Toxic to reproduction

Ethanol : Category1A

Specific target organ systemic toxicity(single exposure)

Ethanol : Category3

Propanol, 1-methoxy- : Category3

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Specific target organ systemic toxicity(repeated exposure)

Aluminum (as paste) : Category1
Ethanol : Category1
Petroleum solvents : Category2

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

Petroleum solvents : Category1

Hazard to the Aquatic Environment (Chronic)

Aluminum (as paste) : Category4
Petroleum solvents : Category1

12. Ecological information

No information available.

13. Disposal considerations**[Waste treatment methods]**

Dispose in accordance with all current regulations and standards.
Do not allow it to flow into the drainages with waste fluid.

14. Transport information**[UN number, proper shipping name]**

1263 Paint

[Transport hazard class(es)]

Class3 Flammable liquids

[Packing group]

II

[Special precautions for user]

Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take caution against collapse of container.

15. Regulatory information

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

16. Other information

- The information is based on our present knowledge at the date of its publication, and designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
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