

SAFETY DATA SHEET according to Regulation (EC) No.1907/2006

1. Product and Company Identification

[Product name] GOLD INK for PX-21

[File No.] 202343B

[Date of issue] 2018/03/19

[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.)

[Details of Supplier]

Supplier's name: Mitsubishi Pencil France S.A

Address: 32 Avenue Pierre Grenier, 92517 BOULOGNE BILLANCOURT CEDEX, FRANCE

Telephone number: 33 (1) 46 94 33 33 telefax number: 33 (1) 46 94 33 00
(Only office hour are available.)

Emergency phone number: 33 (1) 46 94 33 33

2. Hazards identification

[Classification of the substance or mixture] Classification (REGULATION (EC) No 1272/2008)

PHYSICO-CHEMICAL HAZARDS

Flammable Liquids : Category2

HEALTH HAZARDS

Acute toxicity(skin) : Category4

Acute toxicity(inhalation steam) : Category4

Skin corrosion/irritation : Category2

Specific target organ systemic toxicity(repeated exposure) : Category2

ENVIRONMENTAL HAZARDS

Hazard to the Aquatic Environment (Acute) : Category2

Hazard to the Aquatic Environment (Chronic) : Category2

[Label elements] Classification (REGULATION (EC) No 1272/2008)

Pictogram :



Signal Word : Danger

Hazard Statement : Highly flammable liquid and vapour
: Harmful in contact with skin
: Causes skin irritation
: Harmful if inhaled
: May causes damage to organs through prolonged or repeated exposure
: Toxic to aquatic life
: Toxic to aquatic life with long lasting effect

Precautionary Statement

: Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
: Keep cool.
: Ground/bond container and receiving equipment.
: Do not breathe dust/vapours etc..

- : Use in a well-ventilated area.
 - : Avoid release to the environment.
 - : Take off contaminated clothing and wash before reuse.
 - : Wash contaminated clothing before reuse.
 - : Collect spillage.
 - : IF ON SKIN(or hair): Remove immediately all contaminated clothing. Rinse skin with water.
 - : If skin irritation occurs: Get medical advice/attention.
 - : In case of fire: Use appropriate means for fire extinguishing in accordance with all current regulations and standards.
 - : IF ON SKIN:Wash with plenty of soap and water.Get immediate medical advice/attention.
 - : 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 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%)	Classification (REGULATION (EC) No 1272/2008)	
Xylenes	1330-20-7	30-50	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315	
Copper(as bronze powder)	7440-50-8	10-30		
Ethylbenzene	100-41-4	< 10	Flam. Liq.2; H225 Acute Tox.4; H332 Asp. Tox.1; H304 STOT RE2; H373	
Zinc (as bronze powder)	7440-66-6	< 10	Aquatic Acute1; H400 Aquatic Chronic1; H410	

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 : Consult medical advice, and show the SDS to physician.
 : Never give anything by mouth. If vomiting occurs, keep head lower than hips to help prevent aspiration.
- Inhalation : Remove from exposure area to fresh air immediately. Give artificial respiration if not breathing.
 : Consult medical advice, and show the SDS to physician.

[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, regular 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.

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/m ³
Xylenes	-	(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	: Wear a tool for protection for breathing by all means.
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	: Aromatic odor
pH	: No information available.
Boiling point	: No information available.[Ethylbenzene 136.0°C]
Melting point	: No information available.
Flash point	: No information available.[Ethylbenzene 18.0°C]
Autoignition temperature	: No information available.[Ethylbenzene 432.0°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about1.2
Solubility in water	: insoluble
Evaporation rate	: No information available.
[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)

Classification not possible : No information available.

Acute toxicity(skin)

Category4 : 1000 < LD50 <= 2000 mg/kg (estimate value)

Acute toxicity(inhalation:vapours)

Category4 : 10 < LC50 <= 20 mg/L (estimate value)

Skin corrosion/irritation

Xylenes : Category2

Serious eye damage/Eye Irritation

No information available.

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Toxic to reproduction

No information available.

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

Ethylbenzene : Category2

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute)

Zinc(as bronze powder) : Category1

Hazard to the Aquatic Environment (Chronic)

Zinc (as bronze powder) : Category 1

12. Ecological information

[Toxicity for fish]	No information available.
[Toxicity for crustaceans]	No information available.
[Toxicity for algae]	No information available.
[Persistence and degradability]	No information available.
[Bioaccumulative potential]	No information available.
[Mobility in soil]	No information available.
[Results of PBT and vPvB assessment]	No information available.
[Other adverse effects]	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

[Transport hazard class(es)]	Class 3 Flammable liquids
[UN number, proper shipping name]	1263 Paint
[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

[Safety, health and environmental regulations/legislation specific for the substance or mixture]

Follow all regulation in your country.

[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.

H225–Highly flammable liquid and vapour

H226–Flammable liquid and vapour

H304–May be fatal if swallowed and enters airways

H312–Harmful in contact with skin

H315–Causes skin irritation

H332–Harmful if inhaled

H373–May causes damage to organs through prolonged or repeated exposure

H400–Very toxic to aquatic life

H410–Very toxic to aquatic life with long lasting effect

SAFETY DATA SHEET according to Regulation (EC) No.1907/2006

1. Product and Company Identification

[Product name] SILVER INK for PX-21

[File No.] 202344B

[Date of issue] 2018/03/19

[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
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2. Hazards identification

[Classification of the substance or mixture] Classification (REGULATION (EC) No 1272/2008)

PHYSICO-CHEMICAL HAZARDS

Flammable Liquids : Category2

HEALTH HAZARDS

Acute toxicity(skin) : Category4

Acute toxicity(inhalation steam) : Category4

Skin corrosion/irritation : Category2

Specific target organ systemic toxicity(repeated exposure) : Category1

Aspiration hazard : Category1

[Label elements] Classification (REGULATION (EC) No 1272/2008)

Pictogram :



Signal Word : Danger

Hazard Statement : Highly flammable liquid and vapour
: May be fatal if swallowed and enters airways
: Harmful in contact with skin
: Causes skin irritation
: Harmful if inhaled
: Causes damage to organs through prolonged or repeated exposure

Precautionary Statement

: Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
: Keep cool.
: Ground/bond container and receiving equipment.
: Do not breathe dust/vapours etc..
: Do not eat, drink or smoke when using this product.
: Use in a well-ventilated area.
: Take off contaminated clothing and wash before reuse.

- : Wash contaminated clothing before reuse.
 - : IF ON SKIN(or hair): Remove immediately all contaminated clothing. Rinse skin with water.
 - : If skin irritation occurs: Get medical advice/attention.
 - : In case of fire: Use appropriate means for fire extinguishing in accordance with all current regulations and standards.
 - : IF SWALLOWED: Get immediate medical advice/attention. Do NOT induce vomiting.
 - : IF ON SKIN: Wash with plenty of soap and water. Get immediate medical advice/attention.
 - : 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 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%)	Classification (REGULATION (EC) No 1272/2008)	
Xylenes	1330-20-7	50-80	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315	
Ethylbenzene	100-41-4	10-30	Flam. Liq.2; H225 Acute Tox.4; H332 Asp. Tox.1; H304 STOT RE2; H373	
Aluminum (as paste)	7429-90-5	< 10	Flam. Sol.1; H228 Water-react.2; H261	

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
- : Consult medical advice, and show the SDS to physician.
 - : Never give anything by mouth. If vomiting occurs, keep head lower than hips to help prevent aspiration.
- Inhalation
- : Remove from exposure area to fresh air immediately. Give artificial respiration if not breathing.
 - : Consult medical advice, and show the SDS to physician.

[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, regular 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.

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
Xylenes	-	(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	: Wear a tool for protection for breathing by all means.
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	: Aromatic odor
pH	: No information available.
Boiling point	: No information available.[Ethylbenzene 136.0°C]
Melting point	: No information available.
Flash point	: No information available.[Ethylbenzene 18.0°C]
Autoignition temperature	: No information available.[Ethylbenzene 432.0°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about1.0
Solubility in water	: insoluble
Evaporation rate	: No information available.
[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.

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[Information on toxicological effects]

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Classification not possible	: No information available.
Acute toxicity(skin)	
Category4	: 1000 < LD50 <= 2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Category4	: 10 < LC50 <= 20 mg/L (estimate value)

Skin corrosion/irritation

Xylenes : Category2

Serious eye damage/Eye Irritation

No information available.

Respiratory sensitizer

No information available.

Skin sensitizer

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Toxic to reproduction

No information available.

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

Ethylbenzene : Category2

Aspiration hazard

Ethylbenzene : Category1

Hazard to the Aquatic Environment (Acute)

No information available.

Hazard to the Aquatic Environment (Chronic)

No information available.

12. Ecological information

[Toxicity for fish] No information available.

[Toxicity for crustaceans] No information available.

[Toxicity for algae] No information available.

[Persistence and degradability]
No information available.

[Bioaccumulative potential] No information available.

[Mobility in soil] No information available.

[Results of PBT and vPvB assessment]
No information available.

[Other adverse effects] 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

[Transport hazard class(es)]

Class3 Flammable liquids

[UN number, proper shipping name]

1263 Paint

[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

[Safety, health and environmental regulations/legislation specific for the substance or mixture]

Follow all regulation in your country.

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

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- This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

H225-Highly flammable liquid and vapour

H226-Flammable liquid and vapour

H228-Flammable solid

H261-In contact with water releases flammable gas

H304-May be fatal if swallowed and enters airways

H312-Harmful in contact with skin

H315-Causes skin irritation

H332-Harmful if inhaled

H373-May causes damage to organs through prolonged or repeated exposure