SAFETY DATA SHEET

1.	Product	and	Company	Identification
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1. Product and Company Identification					
[Product name] PX-20 Black					
[File No.]	[File No.] 202001E				
[Date of issue]	2018/03/19				
[Details of Manufact	ture]				
	Manufacture's name:	MITSUBISHI PENCIL	CIL CO., LTD.		
	Address:	5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN			
	Telephone number: (Only office hour are available.)	03-3458-6281	tel	efax number: 03-3450-0363	
2. Hazards identifica	ation				
	s section is about the ink.				
	the substance or mixture				
-	EMICAL HAZARDS				
Flammable L	iquids		:	Category2	
HEALTH HAZA	ARDS				
Acute toxicit	ty(oral)		:	Not classified	
Acute toxicit	ty(skin)		:	Not classified	
Acute toxicit	ty(inhalation steam)		:	Not classified	
Skin corrosio	on/irritation		:	Category2	
Serious eye	damage/Eye Irritation		:	Category2	
Respiratory	sensitizer		:	Classification not possible	
Skin sensitiz	er		:	Classification not possible	
Germ cell m		:	Classification not possible		
Carcinogenic		:	Category2		
Toxic to rep		:	Category1		
Specific targ	/(single exposure)	:	Category1		
Specific targ	(repeated exposure)	:	Category1		
Aspiration ha		:	Category1		
ENVIRONMENTAL HAZARDS					

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

[Label elements]

Pictogram



Signal Word			
Hazard Statement			

: Danger

: Highly flammable liquid and vapour

- : May be fatal if swallowed and enters airways
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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 subs	Mixture	
[Chemical nature]	[Component parts]	Ink[Ink quantity of product :about 7.8g]
Chemical name	Cas No.	Concentration range(wt%)
Xylenes	1330-20-7	30–50
Ethylbenzene	100-41-4	10-30
Isobutyl alcohol	78-83-1	< 10
Oleic acid	112-80-1	< 10

4. First aid measures

[Description of first aid measures]
Eye contact	: Flush eyes with plenty of water for at least 15 minutes.

	. Taka off the contect long if peopliels		
	: Take off the contact lens if possible		
	: Then get medical attention immediately.		
Skin contact	: Wash skin.		
	: 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 asporation.		
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 sympton	ns and effects, both acute and delayed]		
	No information available.		
[Indication of any immed	iate 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	[Special hazards arising from the substance or mixture]		

[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 contair	nment 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]
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	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 (if there is a cap), 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.			
	Recommended temperature : 0-40°C			
[Specific end use(s)]	No information available.			

8. Exposure controls/personal protection

•	· · ·		
[Cor	ntrol parameters]		
	Chemical name	OSHA	ACGIH
	Isobutyl alcohol	-	(TWA)50ppm
	Xylenes	-	(TWA)100ppm (STEL)150ppm
[Exp	osure controls]		
	Protective equipment		: Ventilate the room in case of using it and don't breathe the vapor. Do mechanical exhaust as needed.
	Respiratory protection		: Not required.
	Hands protection		: Not required.
	Eye protection		: Not required.
	Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Black
State	: Liquid
Odor	: Aromatic odor
pН	: No information available.
Boiling point	: No information available.[Isobutyl alcohol 107.9°C]
Melting point	: No information available.
Flash point	: No information available.[Ethylbenzene 18.0°C]
Autoignition temperature	: No information available.[Isobutyl alcohol $415.0^{\circ}C$]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about0.9
Solubility in water	: insoluble
Evaporation rate	: No information available.
Volatile	: >70%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
Fr	Avoid direct sunlight and high temperature.
[Incompatible materials]	No information available.
[Hazardous decomposition products]	No information available. No information available.
[Possibility of hazardous reactions]	No information available.
11. Toxicological information	
[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Isobutyl alcohol	: Category2
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Isobutyl alcohol	: Category2A
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Xylenes	: Category1

Aspiration	hazard	

: Category2
: Category2
: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Xylenes	: Category2
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12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

[Product name]	PX-20 Red
[File No.]	202003E
[Date of issue]	2018/03/19

[Details of Manufacture]

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

5-23-37,	HIGASHIOHI,	SHINAGAWA,	TOKYO,	JAPAN
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Telephone number:	03-3458-6281	telefax number:	03-3450-0363
(Only office hour are available.)			

2. Hazards identification

Information	of this	section	is	about	the	ink.

Address:

[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	: Category2
Serious eye damage/Eye Irritation	: Category2
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Category2
Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category2
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2
Hazard to the Aquatic Environment (Chronic)	: Category2

[Label elements]

Pictogram



Signal V	Vord
Hazard	Statement

- : Danger
- : Highly flammable liquid and vapour
- : May be harmful if swallowed and enters airways
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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]	
[Component parts]	Ink[Ink quantity of product :about 8.2g]
Cas No.	Concentration range(wt%)
13463-67-7	30-50
1330-20-7	30-50
100-41-4	< 10
	[Component parts] Cas No. 13463–67–7 1330–20–7

4. First aid measures

[Description of first aid measures]

	[Description of first and measure	s				
	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.			
		:	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 asporation.			
	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. F	irefighting measures					
	[Extinguishing media]		Regular dry chemical, carbon dioxide, water, regular foam			
	[Special hazards arising from the	e s	ubstance 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]
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	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 (if there is a cap), 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.			
	Recommended temperature : 0-40°C			
[Specific end use(s)]	No information available.			

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Red	
State	: Liquid	
Odor	: Aromatic odor	
pН	: 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	: about1.3	
Solubility in water	: insoluble	
Evaporation rate	: No information available.	
Volatile	: >40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[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	: >5000 mg/kg (estimate value)	
Acute toxicity(skin)		
Not classified	: >5000 mg/kg (estimate value)	
Acute toxicity(inhalation:vapours)		
Not classified	: >50 mg/L (estimate value)	
Skin corrosion/irritation		
Xylenes	: Category2	
Ethylbenzene	: Category3	
Serious eye damage/Eye Irritation		
Titanium dioxide	: Category2B	
Xylenes	: Category2A	
Ethylbenzene	: Category2B	
Respiratory sensitizer		
No information available.		
Skin sensitizer		
No information available.		
Germ cell mutagenicity		
No information available.		
Carcinogenicity		
Ethylbenzene	: Category2	
Toxic to reproduction		
Xylenes	: Category1B	
Ethylbenzene	: Category1B	
Specific target organ systemic toxicity	(single exposure)	
Titanium dioxide	: Category3	
Xylenes	: Category1	
Ethylbenzene	: Category2	
Specific target organ systemic toxicity	(repeated exposure)	
Titanium dioxide	: Category1	
Xylenes	: Category1	

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

TOKYO, JAPAN

03-3450-0363

SAFETY DATA SHEET

1. Product and C	ompany Identification		
[Product name]	PX-20 Blue		
[File No.]	202002E		
[Date of issue]	2018/03/19		
[Details of Manu	facture]		
	Manufacture's name:	MITSUBISHI PENCIL C	0., LTD.
	Address:	5–23–37, HIGASHIOH	I, SHINAGAWA, TOKYO, JAI
	Telephone number: (Only office hour are available.)	03-3458-6281	telefax number: 03-345
2. Hazards identi	fication		
Information of	this section is about the ink.		
[Classification	of the substance or mixture]	
PHYSICO-	CHEMICAL HAZARDS		
Flammab	le Liquids		: Category2
HEALTH H	AZARDS		
Acute to	xicity(oral)		: Not classified
Acute to	xicity(skin)		: Not classified
Acute toxicity(inhalation steam)			: Not classified
Skin corr	osion/irritation		: Category2
Serious e	eye damage/Eye Irritation		: Category2
Respirato	ory sensitizer		: Classification not possible
Skin sen	sitizer		: Classification not possible
Germ cel	l mutagenicity		: Classification not possible
Carcinog	enicity		: Category2
Toxic to	reproduction		: Category1
Specific	target organ systemic toxicity	/(single exposure)	: Category1
Specific	target organ systemic toxicity	(repeated exposure)	: Category1
Aspiratio	n hazard		: Category2

ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram



Signal Word Hazard Statement

: Danger

: Highly flammable liquid and vapour

- May be harmful if swallowed and enters airways :
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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[Ink quantity of product :about 8.0g]
Chemical name	Cas No.	Concentration range(wt%)
Xylenes	1330-20-7	30-50
Titanium dioxide	13463-67-7	10-30
Ethylbenzene	100-41-4	< 10

4.

[Description of first aid	l 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.
	: 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 t help prevent asporation.
Inhalation	: Remove from exposure area to fresh air immediately. Give artificial respiration not breathing.
	: Consult medical advice, and show the SDS to physician.
[Most important sympton	oms and effects, both acute and delayed]
	No information available.
[Indication of any imme	diate 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 (if there is a cap), 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.	
	Recommended temperature : 0-40°C	
[Specific end use(s)]	No information available.	

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Blue	
State	: Liquid	
Odor	: Aromatic odor	
рH	: No information available.	
Boiling point	: No information available.[Ethylbenzene 136.0°C]	
Melting point	: No information available.	
Flash point	: No information available.[Ethylbenzene $18.0^{\circ}C$]	
Autoignition temperature	: No information available.[Ethylbenzene 432.0°C]	
Explosion limits	: No information available.	
Vapor density(air=1)	: No information available.	
Density	: about1.3	
Solubility in water	: insoluble	
Evaporation rate	: No information available.	
Volatile	: >40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Aspiration	hazard

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.	
[HS Code]	960820	
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.	

15. Regulatory information

Information of this section is about the ink.

[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 $^{\prime\prime\prime\prime}$

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.

SAFETY DATA SHEET

1.

1. Product and Company Identification					
[Product name]	PX-20 Yellow				
[File No.]	202009E				
[Date of issue]	2018/03/19				
[Details of Manufactu	ire]				
Manufacture's name:		MITSUBISHI PENCIL O	0., LTD.		
	Address:	5-23-37, HIGASHIOH	I, SHINAGAWA, TOKYO, JAPAN		
	Telephone number: (Only office hour are available.)	03-3458-6281	telefax number: 03-3450-0363		
2. Hazards identificat	ion				
Information of this section is about the ink.					
_	he substance or mixture	l			
-	MICAL HAZARDS				
Flammable Liquids			: Category2		
HEALTH HAZAF	RDS				
Acute toxicity	v(oral)		: Not classified		
Acute toxicity	v(skin)		: Not classified		
Acute toxicity	(inhalation steam)		: Not classified		
Skin corrosion/irritation			: Category2		
Serious eye d	amage/Eye Irritation		: Category2		
Respiratory se	ensitizer		: Classification not possible		
Skin sensitize	r		: Classification not possible		
Germ cell mutagenicity			: Classification not possible		

- Carcinogenicity
- Toxic to reproduction
- : Category1 Specific target organ systemic toxicity(single exposure) : Category1 Specific target organ systemic toxicity(repeated exposure) : Category1 Aspiration hazard : Category2 ENVIRONMENTAL HAZARDS Hazard to the Aquatic Environment (Acute) : Category2 Hazard to the Aquatic Environment (Chronic) : Category2

[Label elements]

Pictogram



: Category2

Signal Word
Hazard Statement

- : Danger
- : Highly flammable liquid and vapour
- May be harmful if swallowed and enters airways :
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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]	
Component parts]	Ink[Ink quantity of product :about 8.5g]
as No.	Concentration range(wt%)
3463-67-7	30–50
330-20-7	30–50
00-41-4	< 10
	Component parts] as No. 9463–67–7 930–20–7

4. First aid measures

[Description of first aid measures]

		27		
	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.	
		:	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 asporation.	
	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 med	lic	al attention and special treatment needed]	
			No information available.	
5. F	irefighting measures			
	[Extinguishing media]		Regular dry chemical, carbon dioxide, water, regular foam	
	[Special hazards arising from the	S	ubstance 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]
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	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 (if there is a cap), and keep out of the reach of childrens.
[Conditions for safe storage, includ	ling any incompatibilities]
	Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.
	Recommended temperature : 0-40°C
[Specific end use(s)]	No information available.

8. Exposure controls/personal protection

•			
[Coi	ntrol parameters]		
	Chemical name	OSHA	ACGIH
	Titanium dioxide	-	(TWA)10mg/m3
	Xylenes	-	(TWA)100ppm (STEL)150ppm
[Exp	oosure controls]		
	Protective equipment		: Ventilate the room in case of using it and don't breathe the vapor. Do mechanical exhaust as needed.
	Respiratory protection		: Not required.
	Hands protection		: Not required.
	Eye protection		: Not required.
	Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	Yellow	
State	Liquid	
Odor	Aromatic odor	
pН	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	about1.3	
Solubility in water	insoluble	
Evaporation rate	No information available.	
Volatile	>40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.	
[HS Code]	960820	
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.	

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1. Product and Comp	any Identification				
[Product name]	PX-20 Light greer	ı			
[File No.]	202010E				
[Date of issue]	2018/03/19				
[Details of Manufactu	ıre]				
	Manufacture's name:	MITSUBISHI PENCIL C	0.,	LTD.	
	Address:	5-23-37, HIGASHIOH	I, S	SHINAGAWA, TOK	YO, JAPAN
	Telephone number: (Only office hour are available.)	03-3458-6281	tele	efax number:	03-3450-0363
2. Hazards identificat	tion				
Information of this	section is about the ink.				
[Classification of t	he substance or mixture]				
PHYSICO-CHEM	MICAL HAZARDS				
Flammable Lic	quids		:	Category2	
HEALTH HAZAF	RDS				
Acute toxicity	(oral)		:	Not classified	
Acute toxicity(skin)			:	Not classified	
Acute toxicity(inhalation steam)		:	Not classified		
Skin corrosion/irritation		:	Category2		
Serious eye d	amage/Eye Irritation		:	Category2	
Respiratory se	ensitizer		:	Classification not	possible
Skin sensitize	r		:	Classification not	possible
Germ cell mut	agenicity		:	Classification not	possible
Carcinogenici	ty		:	Category2	
Toxic to repro	oduction		:	Category1	
Specific targe	t organ systemic toxicity	(single exposure)	:	Category1	
Specific targe	t organ systemic toxicity	(repeated exposure)	:	Category1	
Aspiration haz	zard		:	Category2	
ENVIRONMENT	AL HAZARDS				
Hazard to the	Aquatic Environment (A	cute)	:	Category2	
Hazard to the	Aquatic Environment (C	hronic)	:	Category2	
[Label elements]					
Pictogram				¥2	

Signal Word Hazard Statement

- : Danger
- : Highly flammable liquid and vapour
- : May be harmful if swallowed and enters airways
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required.(Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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]	
[Component parts]	Ink[Ink quantity of product :about 8.5g]
Cas No.	Concentration range(wt%)
13463-67-7	30-50
1330-20-7	30-50
100-41-4	< 10
	[Component parts] Cas No. 13463-67-7 1330-20-7

4. First aid measures

Inhalation

4. F	irst aid measures		
	[Description of first aid measure	es]	
	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.
		:	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 asporation.

- : 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	I 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]
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	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 (if there is a cap), 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.	
	Recommended temperature : 0-40°C	
[Specific end use(s)]	No information available.	

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	_	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Light green
State	: Liquid
Odor	: Aromatic odor
pН	: 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	: about1.3
Solubility in water	: insoluble
Evaporation rate	: No information available.
Volatile	: >40%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
F	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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1

1. Product and Compa	any Identification				
[Product name]	PX-20 Green				
[File No.]	202011E				
[Date of issue]	2018/03/19				
[Details of Manufactur	re]				
	Manufacture's name:	MITSUBISHI PENCIL C	0., LTD.		
	Address:	5-23-37, HIGASHIOH	I, SHINAGAWA, TOKYO, JAPAN		
	Telephone number: (Only office hour are available.)	03-3458-6281	telefax number: 03-3450-0363		
2. Hazards identificati	2 Hazarda identification				
	section is about the ink.				
[Classification of the substance or mixture]					
PHYSICO-CHEM	IICAL 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		: Category2		
Serious eye da	mage/Eye Irritation		: Category2		
Respiratory se	nsitizer		: Classification not possible		
Skin sensitizer			: Classification not possible		

Specific target organ systemic toxicity(single exposure) : Category1 Specific target organ systemic toxicity(repeated exposure) : Category1 Aspiration hazard : Category2 ENVIRONMENTAL HAZARDS Hazard to the Aquatic Environment (Acute) : Category2

Hazard to the Aquatic Environment (Chronic) : Category2

[Label elements]

Germ cell mutagenicity

Toxic to reproduction

Carcinogenicity

Pictogram



: Classification not possible

: Category2

: Category1

Signal Word
Hazard Statement

: Danger

: Highly flammable liquid and vapour

- May be harmful if swallowed and enters airways :
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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[Ink quantity of product :about 8.2g]
Chemical name	Cas No.	Concentration range(wt%)
Titanium dioxide	13463-67-7	30-50
Xylenes	1330-20-7	30-50
Ethylbenzene	100-41-4	< 10

4. First aid measures

[Description of first aid measures]	
-------------------------------------	--

		-3		
	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.		
		: 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 asporation.		
	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 e	ffects, both acute and delayed]		
		No information available.		
	[Indication of any immediate med	ical attention and special treatment needed]		
		No information available.		
5. F	irefighting 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 contair	nment 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]
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	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 (if there is a cap), 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.			
	Recommended temperature : 0-40°C			
[Specific end use(s)]	No information available.			

8. Exposure controls/personal protection

[Control parameters]			
Chemical name	OSHA	ACGIH	
Titanium dioxide	-	(TWA)10mg/m3	
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		: Not required.	
Hands protection		: Not required.	
Eye protection		: Not required.	
Skin protection		: Not required.	

9. Physical and chemical properties

[Information on basic physical and chemical properties]

: Green	
: Liquid	
: Aromatic odor	
: No information available.	
: No information available.[Ethylbenzene 136.0°C]
: No information available.	
: No information available.[Ethylbenzene $18.0^{\circ}C$]	
: No information available.[Ethylbenzene 432.0°C]
: No information available.	
: No information available.	
: about1.3	
: insoluble	
: No information available.	
: >40%	
No information available.	
	 Liquid Aromatic odor No information available. No information available.[Ethylbenzene 136.0°C] No information available.[Ethylbenzene 18.0°C] No information available.[Ethylbenzene 432.0°C] No information available. No information available. No information available. insoluble No information available. >40%

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	y(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	y(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Aspiration	hazard

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.
SAFETY DATA SHEET

1

1. Product and Company Identification					
[Product	name]	PX-20 Violet			
[File No.]		202012E			
[Date of	issue]	2018/03/19			
[Details o	of Manufacture	•]			
		Manufacture's name:	MITSUBISHI PENCIL C	O.,	LTD.
		Address:	5-23-37, HIGASHIOHI,	, S	SHINAGAWA, TOKYO, JAPAN
		Telephone number: (Only office hour are available.)	03-3458-6281	tele	efax number: 03-3450-0363
2 Hazards	identificatio	n			
		ection is about the ink.			
		substance or mixture			
L					
					Category2
Flammable Liquids HEALTH HAZARDS			•		
	cute toxicity(c	-			Not classified
	cute toxicity(s			-	Not classified
	-	nhalation steam)			Not classified
Skin corrosion/irritation			:	Category2	
Serious eye damage/Eye Irritation			:	Category2	
Respiratory sensitizer			:	Classification not possible	
Skin sensitizer			:	Classification not possible	
Germ cell mutagenicity			:	Classification not possible	
Carcinogenicity			:	Category2	
Toxic to reproduction			:	Category1	

Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category2
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2
Hazard to the Aquatic Environment (Chronic)	: Category2

[Label elements]

Pictogram



Signal Word
Hazard Statement

: Danger

: Highly flammable liquid and vapour

- May be harmful if swallowed and enters airways :
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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

product :about 8.3g]
ntration range(wt%)
30-50
30-50
< 10

4. First aid measures

[Description of first aid	l 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.
	: 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 asporation.
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 sympton	oms and effects, both acute and delayed]
	No information available.
[Indication of any imme	diate medical attention and special treatment needed]
	No information available.
Einsfighting magazing	

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 (if there is a cap), 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.	
	Recommended temperature : 0-40°C	
[Specific end use(s)]	No information available.	

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	_	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Violet
State	: Liquid
Odor	: Aromatic odor
pН	: 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	: about1.3
Solubility in water	: insoluble
Evaporation rate	: No information available.
Volatile	: >40%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

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

MITSUBISHI PENCIL CO., LTD.

[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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Aspiration	hazard

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1. Product and Company Identification

. Product and Compa	iny Identification			
[Product name]	PX-20 Orange			
[File No.]	202013E			
[Date of issue]	2018/03/19			
[Details of Manufacture	e]			
	Manufacture's name:	MITSUBISHI PENCIL	CO., LTD.	
	Address:	5-23-37, HIGASHIO	HI, SHINAGAWA,	TOKYO, JAPAN
	Telephone number: (Only office hour are available.)	03-3458-6281	telefax number:	03-3450-0363
. Hazards identificatio	on			
Information of this s	ection is about the ink.			
[Classification of the	e substance or mixture]			
PHYSICO-CHEMI	CAL HAZARDS			
Flammable Liqu	iids		: Category2	
HEALTH HAZARD	DS			

2.

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	: Category2
Serious eye damage/Eye Irritation	: Category2
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Category2
Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category2
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2
Hazard to the Aquatic Environment (Chronic)	: Category2
l abal alamanta]	

[Label elements]

Pictogram



Signal Word
Hazard Statement

- : Danger
- : Highly flammable liquid and vapour
- May be harmful if swallowed and enters airways :
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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[Ink quantity of product :about 8.5g]	
Chemical name	Cas No.	Concentration range(wt%)	
Titanium dioxide	13463-67-7	30-50	
Xylenes	1330-20-7	30-50	
Ethylbenzene	100-41-4	< 10	

4. First aid measures

scription of first aid measures]

[Description of first aid n	leasures
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.
	: 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 asporation.
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 symptor	ns and effects, both acute and delayed]
	No information available.
[Indication of any immed	ate medical attention and special treatment needed]
	No information available.
irefighting measures	
[Extinguishing media]	Regular dry chemical, carbon dioxide, water, regular foam
[Special hazards arising f	rom 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.

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]
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	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 (if there is a cap), 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.	
	Recommended temperature : 0-40°C	
[Specific end use(s)]	No information available.	

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	Orange	
State	Liquid	
Odor	Aromatic odor	
pH	No information available.	
Boiling point	No information available.[Ethylbenzene 13	6.0°C]
Melting point	No information available.	
Flash point	No information available.[Ethylbenzene 18.	[3°0]
Autoignition temperature	No information available.[Ethylbenzene 43	2.0°C]
Explosion limits	No information available.	
Vapor density(air=1)	No information available.	
Density	about1.3	
Solubility in water	insoluble	
Evaporation rate	No information available.	
Volatile	>40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
F	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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Aspiration	hazard

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1.	Product	and	Company	Identification
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[Product name]	PX-20 Pink
[File No.]	202014E
[Date of issue]	2018/03/19

[Details of Manufacture]

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

5–23–37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number: (Only office hour are available.)	03-3458-6281	telefax number:	03-3450-0363
--------------------------------------------------------	--------------	-----------------	--------------

2. Hazards identification

Information	of this	section	is	about	the	ink.

Address:

[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	: Category2
Serious eye damage/Eye Irritation	: Category2
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Category2
Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category2
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2
Hazard to the Aquatic Environment (Chronic)	: Category2
· · · · · · · · · · · · · · · · · · ·	

[Label elements]

Pictogram



Signal Word
Hazard Statement

: Danger

: Highly flammable liquid and vapour

: May be harmful if swallowed and enters airways

: Causes skin irritation

- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required.(Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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

ostance or a mixture]	Mixture
[Component parts]	Ink[Ink quantity of product :about 8.5g]
Cas No.	Concentration range(wt%)
13463-67-7	30-50
1330-20-7	30-50
100-41-4	< 10
	[Component parts] Cas No. 13463-67-7 1330-20-7

4. First aid measures

[Description of first aid measures]

[Description of first ald fi	leasures
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.
	: 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 asporation.
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 sympton	ns and effects, both acute and delayed]
	No information available.
[Indication of any immedi	ate medical attention and special treatment needed]
	No information available.
Firefighting measures	
[Extinguishing media]	Regular dry chemical, carbon dioxide, water, regular foam
[Special hazards arising f	rom 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.
	combustion by products.

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]	
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	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 (if there is a cap), 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.	
	Recommended temperature : 0-40°C	
[Specific end use(s)]	No information available.	

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Pink	
State	: Liquid	
Odor	: Aromatic odor	
рH	: 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	: about1.3	
Solubility in water	: insoluble	
Evaporation rate	: No information available.	
Volatile	: >40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
F	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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Aspiration	hazard

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1. Product and Comp	oany Identification				
[Product name]	PX-20 Light blue				
[File No.]	202015E				
[Date of issue]	2018/03/19				
[Details of Manufactu	ure]				
	Manufacture's name:	MITSUBISHI PENCIL C	0., LT	D.	
	Address:	5-23-37, HIGASHIOHI	, SHIN	NAGAWA, TOKY	(O, JAPAN
	Telephone number: (Only office hour are available.)	03-3458-6281	telefax	number:	03-3450-0363
2. Hazards identifica	tion				
Information of this	section is about the ink.				
[Classification of t	he substance or mixture]				
PHYSICO-CHEI	MICAL HAZARDS				
Flammable Lie	quids		: Ca	tegory 2	
HEALTH HAZAF	RDS				
Acute toxicity	/(oral)		: No	t classified	
Acute toxicity	/(skin)		: No	t classified	
Acute toxicity	(inhalation steam)		: No	t classified	
Skin corrosio	n/irritation		: Ca	tegory2	
Serious eye d	amage/Eye Irritation		: Ca	tegory2	
Respiratory s	ensitizer		: Cla	assification not p	ossible
Skin sensitize	r		: Cla	assification not p	ossible
Germ cell mu	tagenicity		: Cla	assification not p	ossible
Carcinogenici	ty		: Ca	tegory2	
Toxic to repro	oduction		: Ca	tegory1	
Specific targe	t organ systemic toxicity	(single exposure)	: Ca	tegory1	
Specific targe	t organ systemic toxicity	(repeated exposure)	: Ca	tegory1	
Aspiration ha	zard		: Ca	tegory2	
ENVIRONMENT	AL HAZARDS				
Hazard to the	Aquatic Environment (A	cute)	: Ca	tegory2	
Hazard to the	Aquatic Environment (C	hronic)	: Ca	tegory2	
[Label elements]				•	
Pictogram				¥	



Signal Word
Hazard Statement

- : Danger
- : Highly flammable liquid and vapour
- : May be harmful if swallowed and enters airways
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required.(Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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

ostance or a mixture]	Mixture
[Component parts]	Ink[Ink quantity of product :about 8.4g]
Cas No.	Concentration range(wt%)
13463-67-7	30-50
1330-20-7	30-50
100-41-4	< 10
	[Component parts] Cas No. 13463-67-7 1330-20-7

4. First aid measures

[Description of first aid measure	s]	
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.
	:	Consult medical advice depending on the symptoms.

- 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 asporation.
 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 contai	nment 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]
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	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 (if there is a cap), and keep out of the reach of childrens.
[Conditions for safe storage, includ	ling any incompatibilities]
	Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.
	Recommended temperature : 0-40°C
[Specific end use(s)]	No information available.

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Light blue
State	: Liquid
Odor	: Aromatic odor
рH	: 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	: about1.3
Solubility in water	: insoluble
Evaporation rate	: No information available.
Volatile	: >40%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
5	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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1

1. Produ	ct and Compa	any Identification			
[Produ	ict name]	PX-20 Brown			
[File N	lo.]	202016E			
[Date	of issue]	2018/03/19			
[Detail	s of Manufactur	e]			
		Manufacture's name:	MITSUBISHI PENCIL (CO., LTD.	
		Address:	5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN		TOKYO, JAPAN
		Telephone number: (Only office hour are available.)	03-3458-6281	telefax number:	03-3450-0363
2. Hazar	ds identificati	on			
Info	rmation of this s	ection is about the ink.			
[Cla	[Classification of the substance or mixture]				
Р	HYSICO-CHEM	ICAL HAZARDS			
Flammable Liquids			: Category2		
HEALTH HAZARDS					
Acute toxicity(oral)			: Not classifie	d	
Acute toxicity(skin)			: Not classifie	d	
Acute toxicity(inhalation steam)			: Not classifie	d	
Skin corrosion/irritation			: Category2		
	Serious eye da	mage/Eye Irritation		: Category2	
	Respiratory ser	nsitizer		: Classification	n not possible

Skin sensitizer Germ cell mutagenicity

- Carcinogenicity
- Toxic to reproduction

Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category2
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2

Hazard to the Aquatic Environment (Chronic) : Category2

[Label elements]

Pictogram



: Classification not possible

: Classification not possible

: Category2

Signal Word
Hazard Statement

: Danger

: Highly flammable liquid and vapour

- : May be harmful if swallowed and enters airways
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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]	
[Component parts]	Ink[Ink quantity of product :about 8.3g]
Cas No.	Concentration range(wt%)
13463-67-7	30-50
1330-20-7	30-50
100-41-4	< 10
	[Component parts] Cas No. 13463-67-7 1330-20-7

4

[Description of first aid	I 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.
	: 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 asporation.
Inhalation	: Remove from exposure area to fresh air immediately. Give artificial respiration not breathing.
	: Consult medical advice, and show the SDS to physician.
[Most important sympt	oms and effects, both acute and delayed]
	No information available.

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 (if there is a cap), and keep out of the reach of childrens.
[Conditions for safe storage, includ	ling any incompatibilities]
	Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.
	Recommended temperature : 0-40°C
[Specific end use(s)]	No information available.

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Brown	
State	: Liquid	
Odor	: Aromatic odor	
рH	: No information available.	
Boiling point	: No information available.[Ethylbenzene 136.0° C]
Melting point	: No information available.	
Flash point	: No information available.[Ethylbenzene $18.0^{\circ}C$]	
Autoignition temperature	: No information available.[Ethylbenzene 432.0° C]
Explosion limits	: No information available.	
Vapor density(air=1)	: No information available.	
Density	: about1.3	
Solubility in water	: insoluble	
Evaporation rate	: No information available.	
Volatile	: >40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
F	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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1.	Product	and	Company	Identification
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[Product name]	PX-20 Grey
[File No.]	202017E
[Date of issue]	2018/03/19

[Details of Manufacture]

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

5-23-37,	HIGASHIOHI,	SHINAGAWA,	TOKYO,	JAPAN
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Telephone number: (Only office hour are available.	03-3458-6281	telefax number:	03-3450-0363
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2. Hazards identification

Information	of this	section	is	about	the	ink.

Address:

[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	: Category2
Serious eye damage/Eye Irritation	: Category2
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Category2
Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category2
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2
Hazard to the Aquatic Environment (Chronic)	: Category2

[Label elements]

Pictogram



Signal Word
Hazard Statement

- : Danger
- : Highly flammable liquid and vapour
- : May be harmful if swallowed and enters airways
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : Causes damage to organs through prolonged or repeated exposure

	: Toxic to aquatic life
	: Toxic to aquatic life with long lasting effect
Precautionary Statement	
Frecautionary Statement	: Keep away from heat/sparks/open flames/hot surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required.(Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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

product :about 8.3g]
ntration range(wt%)
30-50
30-50
< 10

4. First aid measures

sures]	t aid measures	of first	[Description
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	P			
	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.		
	:	: 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 asporation.		
	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.		No information available.		
[Indication of any immediate medical attention and special treatment needed]				
	No information available.			
5. Fi	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 (if there is a cap), 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.	
	Recommended temperature : 0-40°C	
[Specific end use(s)]	No information available.	

8. Exposure controls/personal protection

[Control parameters]			
C	Chemical name	OSHA	ACGIH
Т	Fitanium dioxide	-	(TWA)10mg/m3
Х	(ylenes	-	(TWA)100ppm (STEL)150ppm
[Expos	[Exposure controls]		
F	Protective equipment		: Ventilate the room in case of using it and don't breathe the vapor. Do mechanical exhaust as needed.
F	Respiratory protection		: Not required.
F	lands protection		: Not required.
E	ye protection		: Not required.
S	Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Gray
State	: Liquid
Odor	: Aromatic odor
рH	: No information available.
Boiling point	: No information available.[Ethylbenzene 136.0°C]
Melting point	: No information available.
Flash point	: No information available.[Ethylbenzene $18.0^{\circ}C$]
Autoignition temperature	: No information available.[Ethylbenzene 432.0°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about1.3
Solubility in water	: insoluble
Evaporation rate	: No information available.
Volatile	: >40%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	· >5000
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes Ethylhonzono	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity No information available.	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(cingle exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	
Titanium dioxide	: Category1
Xylenes	: Category1

Aspiration	hazard

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.
SAFETY DATA SHEET

1. Product and C	ompany Identification			
[Product name]	PX-20 White			
[File No.]	202018E			
[Date of issue]	2018/03/19			
[Details of Manuf	acture]			
	Manufacture's name:	MITSUBISHI PENCIL	CO.,	, LTD.
	Address:	5-23-37, HIGASHIOH	⊣I , :	SHINAGAWA, TOKYO, JAPAN
	Telephone number: (Only office hour are available.)	03-3458-6281	tel	efax number: 03–3450–0363
2. Hazards identif	ication			
Information of	this section is about the ink.			
[Classification	of the substance or mixture]			
PHYSICO-C	CHEMICAL HAZARDS			
Flammabl	e Liquids		:	Category2
HEALTH HA	ZARDS			
Acute toxicity(oral) : Not classified			Not classified	
Acute toxicity(skin)			:	Not classified
Acute toxicity(inhalation steam)			:	Not classified
Skin corrosion/irritation			:	Category2
Serious eye damage/Eye Irritation		:	Category2	
Respirato	ry sensitizer		:	Classification not possible
Skin sensitizer : Classification not possible			Classification not possible	
Germ cell mutagenicity : Classification not possible			Classification not possible	
Carcinogenicity : Category2			Category2	
Toxic to reproduction : Category1		Category1		
Specific target organ systemic toxicity(single exposure) : Category1		Category1		
Specific target organ systemic toxicity(repeated exp		(repeated exposure)	:	Category1
Aspiration hazard : Category2			Category2	

ENVIRONMENTAL HAZARDS

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

[Label elements]

Pictogram



Signal Word
Hazard Statement

- : Danger
- : Highly flammable liquid and vapour
- : May be harmful if swallowed and enters airways
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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]	
[Component parts]	Ink[Ink quantity of product :about 8.5g]
Cas No.	Concentration range(wt%)
13463-67-7	30-50
1330-20-7	30-50
100-41-4	< 10
	[Component parts] Cas No. 13463-67-7 1330-20-7

4

[Description of first aid	d 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.
	: 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 asporation.
Inhalation	: Remove from exposure area to fresh air immediately. Give artificial respiration it not breathing.
	: Consult medical advice, and show the SDS to physician.
[Most important sympt	oms 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 contain	nment 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]
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	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 (if there is a cap), 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.	
	Recommended temperature : 0-40°C	
[Specific end use(s)]	No information available.	

8. Exposure controls/personal protection

[Control parameters]		
Chemical name	OSHA	ACGIH
Titanium dioxide	-	(TWA)10mg/m3
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: White	
State	: Liquid	
Odor	: Aromatic odor	
рH	: 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	: about1.3	
Solubility in water	: insoluble	
Evaporation rate	: No information available.	
Volatile	: >40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
F	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	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Titanium dioxide	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Titanium dioxide	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Titanium dioxide	: Category1
Xylenes	: Category1

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Titanium dioxide	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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.

SAFETY DATA SHEET

1.	Product	and	Company	Identification
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[Product name]	PX-20 Gold
[File No.]	202019E
[Date of issue]	2018/03/19

[Details of Manufacture]

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

5–23–37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number: (Only office hour are available.)	03-3458-6281	telefax number:	03-3450-0363
(enily enilee near are available)			

2. Hazards identification

Information	of this	section	is	about	the	ink.

Address:

[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	: Category2
Serious eye damage/Eye Irritation	: Category2
Respiratory sensitizer	: Classification not possible
Skin sensitizer	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Category2
Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category2
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2
Hazard to the Aquatic Environment (Chronic)	: Category2
· · · · · · · · · · · · · · · · · · ·	

[Label elements]

Pictogram



Signal Word
Hazard Statement

: Danger

: Highly flammable liquid and vapour

: May be harmful if swallowed and enters airways

: Causes skin irritation

- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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 subs	Mixture	
[Chemical nature]	[Component parts]	Ink[Ink quantity of product :about 8.1g]
Chemical name	Cas No.	Concentration range(wt%)
Xylenes	1330-20-7	30–50
Copper(as bronze powder)	7440-50-8	10-30
Ethylbenzene	100-41-4	< 10
Zinc(as bronze powder)	7440-66-6	< 10

4. First aid measures

Inhalation

[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.
	: Consult medical advice depending on the symptoms.
	· Thoroughly clean and dry contaminated clothing and sho

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 asporation.

- : 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 contai	nment 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]
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	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 (if there is a cap), and keep out of the reach of childrens.
[Conditions for safe storage, includ	ding any incompatibilities]
	Keep away from oxidizing materials, ignition sources, high temperature and direct sunlight.
	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
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		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	: Gold	
State	: Liquid	
Odor	: Aromatic odor	
рН	: 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	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.	
Volatile	: >40%	
[Other information]	No information available.	

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
	Avoid direct sunlight and high temperature. No information available.
[Incompatible materials]	No information available.
[Hazardous decomposition products] [Possibility of hazardous reactions]	No information available.
	no mormation available.
11. Toxicological information	
[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >5000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >50 mg/L (estimate value)
Skin corrosion/irritation	
Xylenes	: Category2
Ethylbenzene	: Category3
Serious eye damage/Eye Irritation	
Zinc(as bronze powder)	: Category2B
Xylenes	: Category2A
Ethylbenzene	: Category2B
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Ethylbenzene	: Category2
Toxic to reproduction	
Xylenes	: Category1B
Ethylbenzene	: Category1B
Specific target organ systemic toxicity	(single exposure)
Copper(as bronze powder)	: Category3
Xylenes	: Category1
Ethylbenzene	: Category2
Specific target organ systemic toxicity	(repeated exposure)
Copper(as bronze powder)	: Category1
Xylenes	: Category1

Aspiration hazard

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Zinc(as bronze powder)	: Category1
Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Copper(as bronze powder)	: Category4
Zinc(as bronze powder)	: Category1
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[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 $^{\prime\prime\prime\prime}$

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.

SAFETY DATA SHEET

1

1. Product and Comp	any Identification		
[Product name]	PX-20 Silver		
[File No.]	202020E		
[Date of issue]	2018/03/19		
[Details of Manufactu	ire]		
	Manufacture's name:	MITSUBISHI PENCIL C	0., LTD.
	Address:	5–23–37, HIGASHIOHI,	, SHINAGAWA, TOKYO, JAPAN
	Telephone number: (Only office hour are available.)	03-3458-6281	telefax number: 03-3450-0363
2. Hazards identificat	ion		
Information of this	section is about the ink.		
[Classification of t	ne substance or mixture]		
PHYSICO-CHEM	/ICAL HAZARDS		
Flammable Lic	quids		: Category2
HEALTH HAZAF	RDS		
Acute toxicity	(oral)		: Not classified
Acute toxicity	(skin)		: Not classified
Acute toxicity	(inhalation steam)		: Not classified
Skin corrosior	n/irritation		: Category2
Serious eye d	amage/Eye Irritation		: Category2
Respiratory se	ensitizer		: Classification not possible
Skin sensitize	r		: Classification not possible
Germ cell mut	agenicity		: Classification not possible
Carcinogenici	ty.		: Category2
Toxic to repro	oduction		: Category1

Germ Ceir mutagementy	. Glassification not
Carcinogenicity	: Category2
Toxic to reproduction	: Category1
Specific target organ systemic toxicity(single exposure)	: Category1
Specific target organ systemic toxicity(repeated exposure)	: Category1
Aspiration hazard	: Category1
ENVIRONMENTAL HAZARDS	
Hazard to the Aquatic Environment (Acute)	: Category2
Hazard to the Aquatic Environment (Chronic)	: Category2

[Label elements]

Pictogram



Signal Word
Hazard Statement

: Danger

: Highly flammable liquid and vapour

- May be fatal if swallowed and enters airways :
- : Causes skin irritation
- : Causes serious eye damage
- : Suspected of causing cancer
- : May damage fertility or the unborn child
- : Causes damage to organs
- : 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 surfacesNo 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.
	: Avoid release to the environment.
	: Use personal protective equipment as required. (Refer to Section 8)
	: Get medical advice/attention if you feel unwell.
	: Take off contaminated clothing and wash before reuse.
	: Collect spillage.
	: IF ON SKIN: Wash with plenty of soap and water.
	: 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 SWALLOWED:Get immediate medical advaice/attention.Do NOT induce vomiting.
	: 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]	
[Component parts]	Ink[Ink quantity of product :about 8.0g]
Cas No.	Concentration range(wt%)
1330-20-7	50-80
100-41-4	10-30
7429-90-5	< 10
	[Component parts] Cas No. 1330-20-7 100-41-4

4.

4. First aid measures		
[Description of first aid mean	sures]	
Eye contact	: Flush eyes with plenty of water for at least 15 minu	ites.
	: Take off the contact lens if possible	
	: Then get medical attention immediately.	
Skin contact	: Wash skin.	
	: Consult medical advice depending on the symptoms	s.
	: Thoroughly clean and dry contaminated clothing and	d shoes before reuse.
Ingestion	: Consult medical advice, and show the SDS to physi	cian.
	: Never give anything by mouth. If vomiting occurs, keep prevent asporation.	eep head lower than hips to
Inhalation	: Remove from exposure area to fresh air immediatel not breathing.	y. Give artificial respiration if
	: Consult medical advice, and show the SDS to physi	cian.
[Most important symptoms a	nd 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

[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.
[En	vironmental 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.
[Me	thods and material for contain	ment 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.
[Re ⁻	ference to other sections]	No information available.

7. Handling and storage

[Precautions	for	safe	handling]
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	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 (if there is a cap), 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.		
	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 pa	ste) –	(TWA)10ppm
Xylenes	-	(TWA)100ppm (STEL)150ppm
[Exposure controls]		
Protective equip	ment	: Ventilate the room in case of using it and don't breathe the vapor. Do mechanical exhaust as needed.
Respiratory prot	ection	: Not required.
Hands protectior	ı	: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Information on basic physical and chemical properties]

Color	:	Silver
State	:	Liquid
Odor	:	Aromatic odor
pН	:	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.
Volatile	:	>60%
[Other information]		No information available.

10. Stability and reactivity

[Chemical stability]

MITSUBISHI PENCIL CO., LTD.

	[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	: >5000 mg/kg (estimate value)
	Acute toxicity(skin)	
	Not classified	: >5000 mg/kg (estimate value)
	Acute toxicity(inhalation:vapours)	
	Not classified	: >50 mg/L (estimate value)
	Skin corrosion/irritation	
	Xylenes	: Category2
	Ethylbenzene	: Category3
	Serious eye damage/Eye Irritation	
	Xylenes	: Category2A
	Ethylbenzene	: Category2B
	Respiratory sensitizer	
	No information available.	
	Skin sensitizer	
	No information available.	
	Germ cell mutagenicity	
	No information available.	
	Carcinogenicity	
	Ethylbenzene	: Category2
	Toxic to reproduction	
	Xylenes	: Category1B
	Ethylbenzene	: Category1B
	Specific target organ systemic toxicity	
	Xylenes	: Category1
	Ethylbenzene	: Category2
		· · · · · · · · · · · · · · · · · · ·
	Specific target organ systemic toxicity	(repeated exposure)
	Aluminum (as paste)	: Category1
	Xylenes	: Category1

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Acute)

Xylenes	: Category2
Ethylbenzene	: Category1

Hazard to the Aquatic Environment (Chronic)

Aluminum (as paste)	: Category4
Xylenes	: Category2

12. Ecological information

[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

[Environmental hazards]	No information available.
[HS Code]	960820
[Special precautions for user]	Check the container for any leakage. Load a cargo without a dropping or incurring damage, and take causion against collapse of container.

15. Regulatory information

Information of this section is about the ink.

[Safety, health and environmental regulations/legislation specific for the substance or mixture] Follow all regulation in your country.

[Chemical safety assessment]

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