SAFETY DATA SHEET

1. Product and Com	pany Identification				
[Product name]	UB-157/157D/157SF3 Black				
[File No.]	300086E				
[Date of issue]	2015/06/11				
[Details of Manufact	ure]				
	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		
2. Hazards identifica	tion				
	s section is about the ink				
_	the substance or mixture				
_		-			
Not applicabl					
HEALTH HAZA					
Acute toxicit	y(oral)		: Not classified		
Acute toxicit	y(skin)		: Not classified		
Acute toxicit	y(inhalation steam)		: Not classified		
Skin corrosic	on/irritation		: Classification not possible		
Serious eye	damage/Eye Irritation		: Classification not possible		
Respiratory s	sensitizer		: Classification not possible		
Skin sensitiz	er		: Classification not possible		
Germ cell mu	utagenicity		: Classification not possible		
Carcinogenic	ity		: Category2		
Toxic to repr	roduction		: Category2		
Specific targ	et organ systemic toxicit	y(single exposure)	: Classification not possible		
Specific targ	et organ systemic toxicit	y(repeated exposure)	: Category1		
Aspiration ha			: Not classified		
ENVIRONMENT					
	e Aquatic Environment (A		: Classification not possible		
	e Aquatic Environment (C	Chronic)	: Classification not possible		
[Label elements]					
Pictogram					
Signal Word	: Danger				
Hazard Statem	ent : Suspec	cted of causing cancer			
	: Suspec	cted of damaging fertilit	y or the unborn child		
	: Causes	s damage to organs thro	ough prolonged or repeated exposure		
Precautionary S	Statement				
	: Do not breathe dust/vapours etc				
	: Do not eat, drink or smoke when using this product.				
: Use personal protective equipment as required. (Refer to Section 8)					
	: Get me	edical advice/attention	if you feel unwell.		

	IF exposed or concerned: Get medical advice/attention.	
	Dispose in accordance with all current regulations and standards.	
[Other hazards]	No information available.	

3. Composition/information on ingredients

[The chemical product is a substa	Mixture	
[Chemical nature] [Component parts]		Ink[Ink quantity of product :about 2.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Additive	Trade secret	10-30
Carbon black	1333-86-4	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]		
Eye contact	: Flush eyes with plenty of water for at least 15 minutes.		
	: Take off the contact lens if possible		
	: Consult medical advice depending on the symptoms.		
Skin contact	: Wash skin.		
	: Consult medical advice depending on the symptoms.		
	: Thoroughly clean and dry contaminated clothing and shoes before reuse.		
Ingestion	: Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.		
	: Consult medical advice depending on the symptoms.		
Inhalation	: Due to its low vapor pressure inhalation is unlikely at room temperature.		
	: If not feeling well, move to an area of fresh air and rest.		
	: Consult medical advice depending on the symptoms.		
[Most important symptoms and effects, both acute and delayed]			
	No information available.		

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

No information available.

[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.	

[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 containn	nent 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.		
	Recap after use (if there is a cap), and keep out of the reach of infants.		
	Don't shake.		
[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
Carbon black	-	(TWA)3.5mg/m3
[Exposure controls]		
Protective equipment		: Not required.
Respiratory protection		: Not required.
Hands protection		: Not required.
Eye protection		: Not required.
Skin protection		: Not required.

9. Physical and chemical properties

[Imformation on basic physical and chemical properties]

Color	:	Black
State	:	Liquid
Odor	:	slight odor
pН	:	about 8.5
Boiling point	:	No information available.[Water 100°C]
Melting point	:	No information available.
Flash point	:	No information available.[Additive $99^{\circ}C$]

Autoignition temperature	:	No information available.[Additive 365°C]
Explosion limits	:	No information available.
Vapor density(air=1)	:	No information available.
Density	:	about 1.1
Solubility in water	:	No information available.
Evaporation rate	:	No information available.
Volatile	:	>80%
[Other information]		No information available.

10. Stability and reactivity

This mixture is stable in normal temperature, a condition of the pressure.	
data available.	
Avoid heat, flames, sparks and other sources of ignition.	
oid direct sunlight and high temperature.	
information available.	
information available.	
information available.	

[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg/L (estimate value)
Skin corrosion/irritation	
No information available.	
Serious eye damage/Eye Irritation	
No information available.	
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
Carbon black	: Category2
Toxic to reproduction	
Additive	: Category2

Specific target organ systemic toxicity(single exposure)

No information available.

Specific target organ systemic toxicity(repeated exposure)

Carbon black	: Category1
Additive	: Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute) No information available.

Hazard to the Aquatic Environment (Chronic) No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

Dispose in accordance with all current regulations and standards.

Do not allow it to flow into the drainages with waste fluid.

14. Transport information

[Environmental hazards]	No information available.
[HS Code]	960810
[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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment] Ink or lead are manufactured in accordance with ISO 8124-3 "Safety of Toys - Part 3"

- 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 Com	pany Identification		
[Product name]	UB-157/157D/15	7SE3 Blue	
[File No.]	300087E		
[Date of issue]	2015/06/11		
[Details of Manufact			
	Manufacture's name :	MITSUBISHI PENCIL CO	
	Address:		SHINAGAWA, TOKYO, JAPAN
	Telephone number:		elefax number: 03-3450-0363
	(Only office hour are available.)		
2. Hazards identifica	tion		
Information of this	s section is about the ink.		
[Classification of t	the substance or mixture]	
PHYSICO-CHE	MICAL HAZARDS		
Not applicabl	e.		
HEALTH HAZA	RDS		
Acute toxicit	y(oral)		: Not classified
Acute toxicit	y(skin)		: Not classified
Acute toxicit	y(inhalation steam)		: Not classified
Skin corrosio	on/irritation		: Classification not possible
Serious eye	damage/Eye Irritation		: Classification not possible
Respiratory sensitizer : Classification not possible			: Classification not possible
Skin sensitizer : Classification not possible			
Germ cell mutagenicity : Classification not possible			
Carcinogenicity : Classification not possible			
Toxic to reproduction : Category2			: Category2
Specific target organ systemic toxicity(single exposure)		y(single exposure)	: Classification not possible
Specific target organ systemic toxicity(repeated exposure)		(repeated exposure)	: Category1
Aspiration hazard : Not classified			: Not classified
ENVIRONMENT	AL HAZARDS		
Hazard to the Aquatic Environment (Acute)		(cute)	: Classification not possible
Hazard to the	e Aquatic Environment (C	Chronic)	: Classification not possible
[Label elements]			
Pictogram	:		
Signal Word	: Danger		
Hazard Stateme	ent : Suspec	ted of damaging fertility o	r the unborn child
	: Causes	adamage to organs throug	h prolonged or repeated exposure
Precautionary S	Statement		
	: Do not	breathe dust/vapours etc	
	: Do not	eat, drink or smoke when	using this product.
	: Use pe	rsonal protective equipme	nt as required.(Refer to Section 8)

- : Get medical advice/attention if you feel unwell.
- : IF exposed or concerned: Get medical advice/attention.

: 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 2.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Additive	Trade secret	10-30
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]		
Eye contact :	Flush eyes with plenty of water for at least 15 minutes.	
:	Take off the contact lens if possible	
:	Consult medical advice depending on the symptoms.	
Skin contact :	Wash skin.	
:	Consult medical advice depending on the symptoms.	
:	Thoroughly clean and dry contaminated clothing and shoes before reuse.	
Ingestion :	Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.	
:	Consult medical advice depending on the symptoms.	
Inhalation :	Due to its low vapor pressure inhalation is unlikely at room temperature.	
:	If not feeling well, move to an area of fresh air and rest.	
:	Consult medical advice depending on the symptoms.	
[Most important symptoms and effects, both acute and delayed]		
	No information available.	
[Indication of any immediate medical attention and special treatment needed]		
	No information available.	

[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.		

[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.	
	Recap after use (if there is a cap), and keep out of the reach of infants.	
	Don't shake.	
[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

[Exposure controls]

Protective equipment	:	Not required.
Respiratory protection	:	Not required.
Hands protection	:	Not required.
Eye protection	:	Not required.
Skin protection	:	Not required.

9. Physical and chemical properties

[Imformation on basic physical and chemical properties]

Color	: Blue
State	: Liquid
Odor	: slight odor
рН	: about 8.5
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Additive 99°C]
Autoignition temperature	: No information available.[Additive 365°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.

Density	: about 1.1	
Solubility in water	: No information available.	
Evaporation rate	: No information available.	
Volatile	: >80%	
[Other information]	No information available.	

10. Stability and reactivity

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

[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg/L (estimate value)
Skin corrosion/irritation	
No information available.	
Serious eye damage/Eye Irritation	
No information available.	
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
No information available.	
Toxic to reproduction	
Additive	: Category2
Specific target organ systemic toxic	ity(single exposure)
No information available.	

Specific target organ systemic toxicity(repeated exposure)

Additive : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute) No information available.

Hazard to the Aquatic Environment (Chronic) No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

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

14. Transport information

[Environmental hazards]	No information available.
[HS Code]	960810
[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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

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

- 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 Com	pany Identification		
[Product name]			
[File No.]	300067E		
[Date of issue]	2015/06/11		
[Details of Manufact			
-	Manufacture's name:	MITSUBISHI PENCIL CO	LTD.
	Address:		SHINAGAWA, TOKYO, JAPAN
	Telephone number:	03-3458-6281 te	elefax number: 03-3450-0363
	(Only office hour are available.))	
2. Hazards identifica	ition		
Information of this	s section is about the ink		
[Classification of	the substance or mixture]	
PHYSICO-CHE	MICAL HAZARDS		
Not applicab	e.		
HEALTH HAZA	RDS		
Acute toxicit	y(oral)		: Not classified
Acute toxicit	y(skin)		: Not classified
Acute toxicit	y(inhalation steam)		: Not classified
Skin corrosic	on/irritation		: Classification not possible
Serious eye	damage/Eye Irritation		: Classification not possible
Respiratory sensitizer : Classification not possible			: Classification not possible
Skin sensitizer : Classification not possible			
Germ cell mutagenicity : Classification not possible			
Carcinogenicity : Classification not possible			
Toxic to repr	Toxic to reproduction : Category2		
Specific target organ systemic toxicity(single exposure) : Classification not possible			: Classification not possible
Specific target organ systemic toxicity(repeated exposure)		y(repeated exposure)	: Category1
Aspiration hazard : Not classified			: Not classified
ENVIRONMEN	TAL HAZARDS		
Hazard to the Aquatic Environment (Acute)		Acute)	: Classification not possible
Hazard to the Aquatic Environment (Chronic) : Classification not possible			: Classification not possible
[Label elements]			
Pictogram	:		
Signal Word	: Danger		
Hazard Statem	ent : Suspec	cted of damaging fertility or	the unborn child
	: Causes	s damage to organs through	n prolonged or repeated exposure
Precautionary S	Statement		
	: Do not	breathe dust/vapours etc.	
: Do not eat, drink or smoke when using this product.			using this product.
	: Use pe	ersonal protective equipmer	nt as required.(Refer to Section 8)

- : Get medical advice/attention if you feel unwell.
- : IF exposed or concerned: Get medical advice/attention.

: 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 2.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Additive	Trade secret	10-30
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]	
Eye contact :	Flush eyes with plenty of water for at least 15 minutes.
:	Take off the contact lens if possible
:	Consult medical advice depending on the symptoms.
Skin contact :	Wash skin.
:	Consult medical advice depending on the symptoms.
:	Thoroughly clean and dry contaminated clothing and shoes before reuse.
Ingestion :	Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
:	Consult medical advice depending on the symptoms.
Inhalation :	Due to its low vapor pressure inhalation is unlikely at room temperature.
:	If not feeling well, move to an area of fresh air and rest.
:	Consult medical advice depending on the symptoms.
[Most important symptoms and eff	ects, both acute and delayed]
	No information available.
[Indication of any immediate medical attention and special treatment needed]	
	No information available.

[Extinguishing media]	Regular dry chemical, carbon dioxide, water, regular foam
[Special hazards arising from the s	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.

[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 containn	nent 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. H	andling and storage	
	[Precautions for safe handling]	
		Do not lick or swallow the ink.
		Avoid contact with skin and eyes.
		Recap after use (if there is a cap), and keep out of the reach of infants.
		Don't shake.
	[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

[Exposure	controls]

Protective equipment	:	Not required.
Respiratory protection	:	Not required.
Hands protection	:	Not required.
Eye protection	:	Not required.
Skin protection	:	Not required.

9. Physical and chemical properties

[Imformation on basic physical and chemical properties]

Color	: Red
State	: Liquid
Odor	: slight odor
рН	: about 8.5
Boiling point	: No information available.[Water 100°C]
Melting point	: No information available.
Flash point	: No information available.[Additive 99°C]
Autoignition temperature	: No information available.[Additive 365°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.

Density	: about 1.1	
Solubility in water	: No information available.	
Evaporation rate	: No information available.	
Volatile	: >80%	
[Other information]	No information available.	

10. Stability and reactivity

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

[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg/L (estimate value)
Skin corrosion/irritation	
No information available.	
Serious eye damage/Eye Irritation	
No information available.	
Respiratory sensitizer	
No information available.	
Skin sensitizer	
No information available.	
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
No information available.	
Toxic to reproduction	
Additive	: Category2
Specific target organ systemic toxic	ity(single exposure)
No information available.	

Specific target organ systemic toxicity(repeated exposure)

Additive : Category1

Aspiration hazard

No information available.

Hazard to the Aquatic Environment (Acute) No information available.

Hazard to the Aquatic Environment (Chronic) No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

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

14. Transport information

[Environmental hazards]	No information available.
[HS Code]	960810
[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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

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

- 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 Com	pany Identification		
[Product name]			
[File No.]	300072E		
[Date of issue]	2015/06/11		
[Details of Manufact			
	Manufacture's name:	MITSUBISHI PENCIL C	O., LTD.
	Address:		, SHINAGAWA, TOKYO, JAPAN
	Telephone number:	03-3458-6281	telefax number: 03-3450-0363
	(Only office hour are available.)		
2. Hazards identifica	tion		
Information of this section is about the ink.			
[Classification of the substance or mixture]			
PHYSICO-CHEMICAL HAZARDS			
Not applicabl	e.		
HEALTH HAZA	RDS		
Acute toxicity(oral)			: Not classified
Acute toxicity(skin)			: Not classified
Acute toxicity(inhalation steam)			: Not classified
Skin corrosion/irritation			: Category3
Serious eye damage/Eye Irritation			: Not classified
Respiratory sensitizer			: Classification not possible
Skin sensitizer			: Category1
Germ cell mutagenicity			: Classification not possible
Carcinogenicity			: Classification not possible
Toxic to reproduction			: Classification not possible
Specific target organ systemic toxicity(single exposure)		y(single exposure)	: Classification not possible
Specific target organ systemic toxicity(repeated exposure)		(repeated exposure)	: Classification not possible
Aspiration hazard			: Classification not possible
ENVIRONMENT			
Hazard to the	e Aquatic Environment (A	(cute)	: Classification not possible
Hazard to the Aquatic Environment (Chronic) : Classification not possible		: Classification not possible	
[Label elements]			
Pictogram			
Signal Word	: Warning	g	
Hazard Stateme	ent : Causes	mild skin irritation	
	: Мау са	use an allergic skin reacti	ion
Precautionary S	Statement		
	: Do not	breathe dust/vapours et	с
	· \\/l	antoninated elething haf	

: Wash contaminated clothing before reuse.

: IF ON SKIN: Wash with plenty of soap and water.

: If skin irritation occurs: Get medical advice/attention.

: If skin irritation or rash ouuurs: Get medical advice/attention.

: Dispose in accordance with all current regulations and standards.

[Other hazards]

3. Composition/information on ingredients

[The chemical product is a substance or a mixture]	
[Component parts]	Ink[Ink quantity of product :about 2.1g]
Cas No.	Concentration range(wt%)
7732-18-5	50-80
56-81-5	10-30
102-71-6	<10
Trade secret	<10
Trade secret	<10
Trade secret	<10
	[Component parts] Cas No. 7732-18-5 56-81-5 102-71-6 Trade secret Trade secret

No information available.

4. First aid measures

lush eyes with plenty of water for at least 15 minutes.	
ake off the contact lens if possible	
Consult medical advice depending on the symptoms.	
Vash skin.	
Consult medical advice depending on the symptoms.	
horoughly clean and dry contaminated clothing and shoes before reuse.	
	ated
Consult medical advice depending on the symptoms.	
Due to its low vapor pressure inhalation is unlikely at room temperature.	
f not feeling well, move to an area of fresh air and rest.	
Consult medical advice depending on the symptoms.	
[Most important symptoms and effects, both acute and delayed]	
lo information available.	
[Indication of any immediate medical attention and special treatment needed]	
lo information available.	
: T : C : V : C : T : F a : C : C : I : I : C : : I : C : : I : C : : I : I : C : I : I : C : C : T : C : V : C : V : C : T : T : C : T : C : T : T : C : C : T : C : C : T : C : C : C : C : C : C : C : C : C : C	 Flush eyes with plenty of water for at least 15 minutes. Take off the contact lens if possible Consult medical advice depending on the symptoms. Wash skin. Consult medical advice depending on the symptoms. Thoroughly clean and dry contaminated clothing and shoes before reuse. Rinse mouth, give plenty of water to dilute. No specific intervention is indica as compound is not likely to be hazardous by ingestion. Consult medical advice depending on the symptoms. Due to its low vapor pressure inhalation is unlikely at room temperature. If not feeling well, move to an area of fresh air and rest. Consult medical advice depending on the symptoms.

[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.

[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 containr	nent 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.	
	Recap after use (if there is a cap), and keep out of the reach of infants.	
	Don't shake.	
[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
Glycerine	_	(TWA)10mg/m3
Triethanolamine	_	(TWA)5mg/m3
xposure controls]		

[Ex

: Not required.
: Not required.

9. Physical and chemical properties

Color	: Green	
State	: Liquid	
Odor	: No information available.	
рH	: about 8.8	
Boiling point	: No information available.[Water 10	00°C]
Melting point	: No information available.	

Flash point	: No information available.[Glycerine 177°C]
Autoignition temperature	: No information available.[Glycerine 393°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: about 1.1
Solubility in water	: No information available.
Evaporation rate	: No information available.
Volatile	: >80%
[Other information]	No information available.

10. Stability and reactivity

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

[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg/L (estimate value)
Skin corrosion/irritation	
Triethanolamine	: Category2
Serious eye damage/Eye Irritation	
No information available.	
Respiratory sensitizer	
No information available.	
Skin sensitizer	
Triethanolamine	: Category1
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
No information available.	
Toxic to reproduction	
No information available.	

Specific target organ systemic toxicity(single exposure) No information available.

Specific target organ systemic toxicity(repeated exposure) No information available.

Aspiration hazard No information available.

Hazard to the Aquatic Environment (Acute) No information available.

Hazard to the Aquatic Environment (Chronic) No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

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

14. Transport information

[Environmental hazards]	No information available.
[HS Code]	960810
[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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

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

- 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 Com	any Identification		
1. Product and Company Identification [Product name] UB-157/157D/157SF3 Light blue			
[File No.]	UB-157/157D/157SF3 Light blue 300068F		
[Date of issue]	2015/06/11		
[Details of Manufactu			
[Details of Manufacti	-		
	Manufacture's name:		
	Address:		SHINAGAWA, TOKYO, JAPAN elefax number: 03-3450-0363
	Telephone number: (Only office hour are available.)		elefax number: 03-3450-0363
2. Hazards identificat	tion		
Information of this	section is about the ink.		
[Classification of t	he substance or mixture]	
PHYSICO-CHE	MICAL HAZARDS	-	
Not applicable	9.		
HEALTH HAZAF	RDS		
Acute toxicity	/(oral)		: Not classified
Acute toxicity	/(skin)		: Not classified
Acute toxicity(inhalation steam) : Not classified		: Not classified	
Skin corrosion/irritation : Category3		: Category3	
Serious eye damage/Eye Irritation : Not classified		: Not classified	
Respiratory sensitizer : Classification not possible		: Classification not possible	
Skin sensitizer : Category1		: Category1	
Germ cell mutagenicity : Classification not possible		: Classification not possible	
Carcinogenicity : Classification not possible		: Classification not possible	
Toxic to reproduction : Classification not possible		: Classification not possible	
Specific target organ systemic toxicity(single exposure) : Classification not pos		: Classification not possible	
Specific targe	t organ systemic toxicity	(repeated exposure)	: Classification not possible
Aspiration hazard : Classification not possible		: Classification not possible	
ENVIRONMENT	AL HAZARDS		
Hazard to the	Aquatic Environment (A	(cute)	: Classification not possible
Hazard to the Aquatic Environment (Chronic)		Chronic)	: Classification not possible
[Label elements]			
Pictogram	:		
Signal Word	: Warning	g	
Hazard Stateme	nt : Causes	s mild skin irritation	
	: Мау са	use an allergic skin reactio	on
Precautionary S	tatement		
		hundles durat /	

: Do not breathe dust/vapours etc..

- : Wash contaminated clothing before reuse.
- : IF ON SKIN: Wash with plenty of soap and water.
- : If skin irritation occurs: Get medical advice/attention.
- : If skin irritation or rash ouuurs: Get medical advice/attention.

: Dispose in accordance with all current regulations and standards. [Other hazards] No information available.

$\label{eq:composition} \textbf{3. Composition/information on ingredients}$

[The chemical product is a substance or a mixture]		Mixture
[Chemical nature]	[Component parts]	Ink[Ink quantity of product :about 2.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	10-30
Triethanolamine	102-71-6	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]	
Eye contact :	Flush eyes with plenty of water for at least 15 minutes.
:	Take off the contact lens if possible
:	Consult medical advice depending on the symptoms.
Skin contact :	Wash skin.
:	Consult medical advice depending on the symptoms.
:	Thoroughly clean and dry contaminated clothing and shoes before reuse.
Ingestion :	Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
:	Consult medical advice depending on the symptoms.
Inhalation :	Due to its low vapor pressure inhalation is unlikely at room temperature.
:	If not feeling well, move to an area of fresh air and rest.
:	Consult medical advice depending on the symptoms.
[Most important symptoms and effects, both acute and delayed]	
	No information available.

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

No information available.

[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.

[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.
	Recap after use (if there is a cap), and keep out of the reach of infants.
	Don't shake.
[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]
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Chemical name	OSHA	ACGIH
Glycerine	-	(TWA)10mg/m3
Triethanolamine	-	(TWA)5mg/m3
xposure controls]		

[Exposure controls]

: Not required.
: Not required.

9. Physical and chemical properties

[Imformation on basic physic	cal and chemical properties]
Color	· Light blue

Color	: Light blue
State	: Liquid
Odor	: No information available.
рH	: about 8.5
Boiling point	: No information available.[Water $100^{\circ}C$]
Melting point	: No information available.

Flash point	: No information available.[Glycerine 177°C]
Autoignition temperature	: No information available.[Glycerine 393°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: No information available.
Solubility in water	: No information available.
Evaporation rate	: No information available.
Volatile	: >80%
[Other information]	No information available.

10. Stability and reactivity

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

[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg∕L (estimate value)
Skin corrosion/irritation	
Triethanolamine	: Category2
Serious eye damage/Eye Irritation	
No information available.	
No mormation available.	
Respiratory sensitizer	
No information available.	
Skin sensitizer	
Triethanolamine	: Category1
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
No information available.	
Tauis to some dusting	
Toxic to reproduction	
No information available.	

Specific target organ systemic toxicity(single exposure) No information available.

Specific target organ systemic toxicity(repeated exposure) No information available.

Aspiration hazard No information available.

Hazard to the Aquatic Environment (Acute) No information available.

Hazard to the Aquatic Environment (Chronic) No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

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

14. Transport information

[Environmental hazards]	No information available.
[HS Code]	960810
[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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

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

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1. Product and Company Identification

SAFETY DATA SHEET

[Product and Compa [Product name]	UB-157/157D/157			
		SF3 PINK		
[File No.]	300071E			
[Date of issue]	-			
[Details of Manufactur	-			
		MITSUBISHI PENCIL		
	Address:	5-23-37, HIGASHIO		
	Telephone number: (Only office hour are available.)	03-3458-6281	telefax number:	03-3450-0363
2. Hazards identificati	on			
Information of this s	section is about the ink.			
	e substance or mixture]			
PHYSICO-CHEM	-			
Not applicable.				
HEALTH HAZAR				
Acute toxicity(oral)		: Not classified	
Acute toxicity(: Not classified	
-			: Not classified	
Acute toxicity(inhalation steam) : Not classified Skin corrosion/irritation : Category3				
Skin corrosion/initiation Categorys Serious eye damage/Eye Irritation : Not classified				
Respiratory sensitizer : Classification not possible		ot possible		
Skin sensitizer : Category1				
Germ cell mutagenicity : Classification not possi		ot possible		
Carcinogenicity			: Classification not possible	
Toxic to reproduction : Category2				
Specific target organ systemic toxicity(single exposure) : Classification not possi		ot possible		
Specific target organ systemic toxicity(repeated exposure)		(repeated exposure)	: Classification n	ot possible
Aspiration haza			: Classification n	ot possible
ENVIRONMENTA	L HAZARDS			
Hazard to the Aquatic Environment (Acute)		cute)	: Classification n	ot possible
Hazard to the	Aquatic Environment (C	hronic)	: Classification n	ot possible
[Label elements]				
Pictogram	:			
		\mathcal{S}		
Signal Word	: Warning	ب		
Hazard Statemen		, mild skin irritation		
	: May car	use an allergic skin rea	ction	
		ted of damaging fertility		
Precautionary St			,	
		breathe dust/vapours	etc	
		-		fer to Section 8)
	: Use personal protective equipment as required.(Refer to Section 8) : Wash contaminated clothing before reuse.		,	
	: IF ON SKIN: Wash with plenty of soap and water.			
		. ,	-	

:	IF exposed or concerned: Get medical advice/attention.
:	If skin irritation occurs: Get medical advice/attention.
:	If skin irritation or rash ouuurs: Get medical advice/attention.
:	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 2.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	10-30
Triethanolamine	102-71-6	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10
Polyethylene glycol nonylphenyl ether	9016-45-9	<1

4. First aid measures

[Description of first aid measures]		
Eye contact	Flush eyes with plenty of water for at least 15 minutes.	
	Take off the contact lens if possible	
	Consult medical advice depending on the symptoms.	
Skin contact	Wash skin.	
	Consult medical advice depending on the symptoms.	
	Thoroughly clean and dry contaminated clothing and shoes before reuse.	
Ingestion	Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.	
	Consult medical advice depending on the symptoms.	
Inhalation	Due to its low vapor pressure inhalation is unlikely at room temperature.	
	If not feeling well, move to an area of fresh air and rest.	
	Consult medical advice depending on the symptoms.	
[Most important symptoms and ef	fects, both acute and delayed]	
	No information available.	
[Indication of any immediate medio	cal attention and special treatment needed]	
	No information available.	

[Extinguishing media]	Regular dry chemical, carbon dioxide, water, regular foam		
[Special hazards arising from the	he 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.		

[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]	
	Do not lick or swallow the ink.
	Avoid contact with skin and eyes.
	Recap after use (if there is a cap), and keep out of the reach of infants.
	Don't shake.
[Conditions for safe storage, inclu	uding 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
Glycerine	-	(TWA)10mg/m3
Triethanolamine	-	(TWA)5mg/m3
[Exposure controls]		

Protective equipment: Not required.Respiratory protection: Not required.Hands protection: Not required.Eye protection: Not required.Skin protection: Not required.

9. Physical and chemical properties

[Imformation on basic physical and chemical properties]			
Color	:	Pink	
State	:	Liquid	
Odor	:	No information available.	
рH	:	about 8.6	
Boiling point	:	No information available.[Water 100°C]	
Melting point	:	No information available.	

Flash point	: No information available.[Glycerine 177°C]
Autoignition temperature	: No information available.[Glycerine 393°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: No information available.
Solubility in water	: No information available.
Evaporation rate	: No information available.
Volatile	: >80%
[Other information]	No information available.

10. Stability and reactivity

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

[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg/L (estimate value)
Skin corrosion/irritation	
Triethanolamine	: Category2
Serious eye damage/Eye Irritation	
No information available.	
Respiratory sensitizer	
No information available.	
Skin sensitizer	
Triethanolamine	: Category1
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
No information available.	
Toxic to reproduction	
Polyethylene glycol nonylphenyl ether	: Category2

Specific target organ systemic toxicity(single exposure) No information available.

Specific target organ systemic toxicity(repeated exposure) No information available.

Aspiration hazard No information available.

Hazard to the Aquatic Environment (Acute) No information available.

Hazard to the Aquatic Environment (Chronic) No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

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

14. Transport information

[Environmental hazards]	No information available.
[HS Code]	960810
[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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

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

- 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]			
[File No.]	300070E		
[Date of issue]	2015/06/11		
[Details of Manufactu			
	Manufacture's name:	MITSUBISHI PENCIL CO	. LTD.
	Address:		SHINAGAWA, TOKYO, JAPAN
	Telephone number:		elefax number: 03-3450-0363
	(Only office hour are available.)		
2. Hazards identificat	ion		
_	section is about the ink.		
-	he substance or mixture] /ICAL HAZARDS		
Not applicable			
HEALTH HAZAF			
Acute toxicity			: Not classified
Acute toxicity			: Not classified
-	(inhalation steam)		: Not classified
Skin corrosior			: Category3
	amage/Eye Irritation		: Not classified
Respiratory se			: Classification not possible
Skin sensitize			: Category1
Germ cell mut			: Classification not possible
Carcinogenicit			: Classification not possible
Toxic to repro	-		: Classification not possible
	t organ systemic toxicity	(single exposure)	: Classification not possible
Specific targe	t organ systemic toxicity	(repeated exposure)	: Classification not possible
Aspiration haz	zard		: Classification not possible
ENVIRONMENT	AL HAZARDS		
Hazard to the	Aquatic Environment (A	cute)	: Classification not possible
Hazard to the	Aquatic Environment (C	hronic)	: Classification not possible
[Label elements]			
Pictogram	:		
	</td <td>></td> <td></td>	>	
	Ň		
Signal Word	: Warning	Ş	
Hazard Stateme	nt : Causes	mild skin irritation	
	: Мау са	use an allergic skin reactio	n
Precautionary S	tatement		
	: Do not	breathe dust/vapours etc.	

: Wash contaminated clothing before reuse.

- : IF ON SKIN: Wash with plenty of soap and water.
- : If skin irritation occurs: Get medical advice/attention.
- : If skin irritation or rash ouuurs: Get medical advice/attention.

: Dispose in accordance with all current regulations and standards. [Other hazards] No information available.

$\label{eq:composition} \textbf{3. Composition/information on ingredients}$

[The chemical product is a substanc	Mixture	
[Chemical nature]	[Component parts]	Ink[Ink quantity of product :about 2.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	10-30
Triethanolamine	102-71-6	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measure		
Eye contact	lush eyes with plenty of water for at least 15 minutes.	
	ake off the contact lens if possible	
	Consult medical advice depending on the symptoms.	
Skin contact	Vash skin.	
	Consult medical advice depending on the symptoms.	
	horoughly clean and dry contaminated clothing and shoes before reuse.	
Ingestion	Rinse mouth, give plenty of water to dilute. No specific intervention is indicate s compound is not likely to be hazardous by ingestion.	ed
	Consult medical advice depending on the symptoms.	
Inhalation	Due to its low vapor pressure inhalation is unlikely at room temperature.	
	f not feeling well, move to an area of fresh air and rest.	
	Consult medical advice depending on the symptoms.	
[Most important symptoms and effects, both acute and delayed]		
	lo information available.	
Fa		

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

No information available.

[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.	

[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 containn	nent 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.
	Recap after use (if there is a cap), and keep out of the reach of infants.
	Don't shake.
[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
Glycerine	-	(TWA)10mg/m3
Triethanolamine	_	(TWA)5mg/m3
xposure controls]		

[Ex

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties

[Imformation on basic physical and chemical properties]				
Color	:	Wine		
State	:	Liquid		
Odor	:	No information available.		
pН	:	about 8.6		
Boiling point	:	No information available.[Water 100°C]		
Melting point	:	No information available.		

Flash point	: No information available.[Glycerine 177°C]
Autoignition temperature	: No information available.[Glycerine 393°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: No information available.
Solubility in water	: No information available.
Evaporation rate	: No information available.
Volatile	: >80%
[Other information]	No information available.

10. Stability and reactivity

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

[Information on toxicological effects]	
Acute toxicity(oral)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(skin)	
Not classified	: >2000 mg/kg (estimate value)
Acute toxicity(inhalation:vapours)	
Not classified	: >20 mg/L (estimate value)
Skin corrosion/irritation	
Triethanolamine	: Category2
Serious eye damage/Eye Irritation	
No information available.	
Respiratory sensitizer	
No information available.	
Skin sensitizer	
Triethanolamine	
Irietnanolamine	: Category1
Germ cell mutagenicity	
No information available.	
Carcinogenicity	
No information available.	
ino information available.	
Toxic to reproduction	
No information available.	

Specific target organ systemic toxicity(single exposure) No information available.

Specific target organ systemic toxicity(repeated exposure) No information available.

Aspiration hazard No information available.

Hazard to the Aquatic Environment (Acute) No information available.

Hazard to the Aquatic Environment (Chronic) No information available.

12. Ecological information

No information available.

13. Disposal considerations

[Waste treatment methods]

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

14. Transport information

[Environmental hazards]	No information available.
[HS Code]	960810
[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

TSCA : Listed on the TSCA inventory or polymer substance.

[Chemical safety assessment]

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

- 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 Com	pany Identification		
[Product name]	UB-157/157D/157SF3 Violet		
[File No.]	300074E		
Date of issue]	2015/06/11		
[Details of Manufact	ure]		
	Manufacture's name:	MITSUBISHI PENCIL CC	., LTD.
	Address:	5–23–37, HIGASHIOHI,	SHINAGAWA, TOKYO, JAPAN
	Telephone number:	03-3458-6281 to	elefax number: 03-3450-0363
	(Only office hour are available.)		
2. Hazards identifica	ation		
	s section is about the ink		
	the substance or mixture		
-	MICAL HAZARDS	-	
Not applicab	e.		
HEALTH HAZA	RDS		
Acute toxicit	zy(oral)		: Not classified
Acute toxicit	zy(skin)		: Not classified
Acute toxicity(inhalation steam) : Not classified		: Not classified	
Skin corrosic	on/irritation		: Category3
Serious eye damage/Eye Irritation :		: Not classified	
Respiratory sensitizer			: Classification not possible
Skin sensitizer			: Category1
Germ cell mutagenicity			: Classification not possible
Carcinogenicity			: Classification not possible
Toxic to reproduction			: Classification not possible
Specific target organ systemic toxicity(single exposure)		y(single exposure)	: Classification not possible
Specific targ	et organ systemic toxicity	y(repeated exposure)	: Classification not possible
Aspiration hazard			: Classification not possible
ENVIRONMEN	TAL HAZARDS		
Hazard to th	e Aquatic Environment (A	(cute)	: Classification not possible
Hazard to the Aquatic Environment (Chronic)		Chronic)	: Classification not possible
[Label elements]			
Pictogram	:		
Signal Word	: Warnin	g	
Hazard Statem		s mild skin irritation	
	: May ca	use an allergic skin reactio	on
Precautionary			

: Do not breathe dust/vapours etc..

- : Wash contaminated clothing before reuse.
- : IF ON SKIN: Wash with plenty of soap and water.
- : If skin irritation occurs: Get medical advice/attention.
- : If skin irritation or rash ouuurs: Get medical advice/attention.

: Dispose in accordance with all current regulations and standards. No information available.

3. Composition/information on ingredients

[Other hazards]

[The chemical product is a substance or a mixture]		Mixture
[Chemical nature]	[Component parts]	Ink[Ink quantity of product :about 2.1g]
Chemical name	Cas No.	Concentration range(wt%)
Water	7732-18-5	50-80
Glycerine	56-81-5	10-30
Triethanolamine	102-71-6	<10
Coloring agent	Trade secret	<10
Resin	Trade secret	<10

4. First aid measures

[Description of first aid measures]
Eye contact	: Flush eyes with plenty of water for at least 15 minutes.
	: Take off the contact lens if possible
	: Consult medical advice depending on the symptoms.
Skin contact	: Wash skin.
	: Consult medical advice depending on the symptoms.
	: Thoroughly clean and dry contaminated clothing and shoes before reuse.
Ingestion	: Rinse mouth, give plenty of water to dilute. No specific intervention is indicated as compound is not likely to be hazardous by ingestion.
	: Consult medical advice depending on the symptoms.
Inhalation	: Due to its low vapor pressure inhalation is unlikely at room temperature.
	: If not feeling well, move to an area of fresh air and rest.
	: Consult medical advice depending on the symptoms.
[Most important symptoms and ef	fects, both acute and delayed]
	No information available.

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

No information available.

[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.

[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 containn	nent 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.
	Recap after use (if there is a cap), and keep out of the reach of infants.
	Don't shake.
[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
Glycerine	-	(TWA)10mg/m3
Triethanolamine	_	(TWA)5mg/m3
xposure controls]		

[Ex

Protective equipment	: Not required.
Respiratory protection	: Not required.
Hands protection	: Not required.
Eye protection	: Not required.
Skin protection	: Not required.

9. Physical and chemical properties

Boiling point

Melting point

[Imformation on basic physical and chemical properties]			
Color	: Violet		
State	: Liquid		
Odor	: No information available.		
рН	: about 8.6		

: No information available.[Water 100°C]

: No information available.

Flash point	: No information available.[Glycerine 177°C]
Autoignition temperature	: No information available.[Glycerine 393°C]
Explosion limits	: No information available.
Vapor density(air=1)	: No information available.
Density	: No information available.
Solubility in water	: No information available.
Evaporation rate	: No information available.
Volatile	: >80%
[Other information]	No information available.

10. Stability and reactivity

[Chemical stability]	This mixture is stable in normal temperature, a condition of the pressure.
[Reactivity]	No data available.
[Conditions to avoid]	Avoid heat, flames, sparks and other sources of ignition.
	Avoid direct sunlight and high temperature.
[Incompatible materials]	No information available.
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Skin sensitizer		
Triethanolamine	: Category1	
Germ cell mutagenicity		
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Carcinogenicity		
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Toxic to reproduction		
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