

## Safety Data Sheet (SDS)

Preparation Date 2016/11/24

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## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	OPF4-W
Product Code	OPF4W00002
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	QUALITY ASSURANCE DEPARTMENT I
Phone Number	03-5695-7210
Fax Number	03-5645-8204
Mail Address	hinpo@pentel.co.jp
Emergency Phone Number	03-5695-7210
Recommended Use and Restriction on Use	ink  X100W-M,L、X100W-MDG

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

Physicochemical Hazards	Flammable liquids Category 3
Health Hazards	Acute toxicity (Inhalation: vapour) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Carcinogenicity Category 2 Reproductive toxicity Category 1B Specific target organ toxicity (single exposure) Category 1(liver,respiratory apparatus,kidney,central nervous system) Specific target organ toxicity (single exposure) Category 3(narcotic effect,respiratory tract irritation) Specific target organ toxicity (repeated exposure) Category 1(respiratory apparatus,nervous system)
Environmental Hazards	Hazardous to the aquatic environment (acute) Category 2 Hazardous to the aquatic environment (long-term) Category 3 Other hazards than mentioned above are Not applicable or Classification not possible.

## GHS Label Elements

## Symbols



Signal Word	Danger
Hazard Statements	H335 May cause respiratory irritation H401 Toxic to aquatic life H226 Flammable liquid and vapour H315 Causes skin irritation H319 Causes serious eye irritation H332 Harmful if inhaled H336 May cause drowsiness or dizziness

	H351 Suspected of causing cancer H360 May damage fertility or the unborn child H370 Causes damage to liver, respiratory apparatus, kidney, central nervous system H372 Causes damage to respiratory apparatus, nervous system through prolonged or repeated exposure H412 Harmful to aquatic life with long lasting effects
Precautionary Statements	
Prevention	Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210)
Precautionary Statements	Keep container tightly closed.(P233) Avoid breathing mist, vapours and spray.(P261) Wash hand thoroughly after handling.(P264) Do not eat, drink or smoke when using this product.(P270) Use only outdoors or in a well-ventilated area.(P271) Avoid release to the environment.(P273) Wear protective gloves, eye protection and face protection.(P280)
Response	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)
Precautionary Statements	Get medical advice and attention if you feel unwell.(P314) IF ON SKIN: Wash with plenty of soap and water.(P302+P352) If skin irritation occurs: Get medical advice and attention.(P332+P313) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338) If eye irritation persists: Get medical advice and attention.(P337+P313) In case of fire: Use appropriate media for extinction.(P370+P378)
Storage	Store in a well-ventilated place keeping container tightly closed.(P403+P233)
Precautionary Statements	Store in a well-ventilated place. Keep cool.(P403+P235) Store locked up.(P405)
Disposal	Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)
Precautionary Statements	

## Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance  
or Mixture

Mixture

Chemical Name or Generic Name	Concentration or Its Ranges	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Butyl acetate	29.74%	CH <sub>3</sub> COOC H <sub>2</sub> CH <sub>2</sub> C H <sub>2</sub> CH <sub>3</sub>	(2)-731	Existing	123-86-4

Xylene	15.57%	C8H10	(3)-3 (3)-60	Existing	1330-20-7
Propyleneglycol monomethylether acetate	15.57%		(2)-3144	Existing	108-65-6
Methyl isobutyl ketone	0.27%	CH3CH(C H3)CH2 COCH3	(2)-542	Existing	108-10-1
Cellulose nitrate	4.86%		(8)-176	Existing	9004-70-0
Titanium dioxide	21.43%	TiO2	(1)-558 (5)-5225	Existing	13463-67-7

Impurities and/or  
Stabilizing Additives which  
Contribute to the

No information available

#### Section 4 – FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice and attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
When the ocular stimulation lasts, Seek medical treatment and advice.

Ingestion

Rinse mouth. Do NOT induce vomiting.  
Get medical advice and attention if you feel unwell.

#### Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemicals, CO2, fog, sand or regular foam.  
Straight streams.

Unsuitable Extinguishing Media

Protection of Fire Fighter

In fire fighting, wear respiratory protection and chemical protective clothing.

#### Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions,  
Protective Equipment and  
Emergency Procedures

Wear appropriate personal protective equipment (Refer to "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION") and avoid inhalation or contact with eyes and skin.

Environmental

Do not release into the environment.  
Pay attention not to cause the influence on the environment by discharging into rivers.  
This product is water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.  
Stop leak if you can do it without risk.

Methods and Equipment  
for Containment and  
Cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to Vacuum or sweep up material and place in a disposal container.  
Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Prevention Measures for Secondary Accidents	<p>Allow material to solidify, and scrape up. After removal, flush contaminated area thoroughly with water. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants. Small spills; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area). Prevent flowing into drain, sewage, basement, and closed area. Remove thoroughly since the smooth and slippery surface will be formed on the floor.</p>
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## Section 7 – HANDLING AND STORAGE

Handling	<p><b>Technical Measures</b> Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p> <p><b>Precautions for Safe Handling</b> Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Avoid swallowing. Avoid contact with eyes and skin. Avoid breathing mist, vapours and spray. Use exhaust ventilation. Handle at a well-ventilated place. Protect from high temperature and direct sunlight.</p>
Storage Precautionary Statements	<p><b>Prevents Handling of Incompatible Substances or Mixtures</b> Refer to "Section 10 – STABILITY AND REACTIVITY".</p> <p><b>Specific Hygiene Measures</b> Wash hand thoroughly after handling.</p> <p><b>Conditions for Safe Storage</b> The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "Section 10 – STABILITY AND REACTIVITY". Have containers keep away from direct sunlight and heat. Keep away from heat. Store in a well-ventilated and cool place keeping container tightly closed. Store locked up.</p> <p><b>Material Used in Packaging/Container</b> Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".</p>

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	<p><b>Respiratory Protection</b> Wear an adequate protective apparatus for respiratory organs.</p> <p><b>Hand Protection</b> Use personal gloves as required.</p> <p><b>Eye Protection</b> Wear eye protection.</p>

Skin and Body Protection	Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	Wear face protection.
	Use personal protective clothing and face protection as required.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Form	liquid
	Colour	white
Odour		characteristic
Odour threshold		No data available
pH		No data available
Melting Point/Freezing Point		No data available
Initial Boiling Point and Boiling Ranges		No data available
Flash Point		27.2°C (Tag Closed Cup)
Evaporation Rate		No data available
Flammability (solid, gas)		No data available
Flammability or Explosive Limits	Lower Limit	No data available
	Upper Limit	No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific Gravity (Density)		No data available
Partition Coefficient : n-Octanol/Water		No data available
Auto-Ignition		No data available
Decomposition Temperature		No data available
Viscosity		No data available
Kinematic viscosity		No data available

## Section 10 – STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	No data available
Possibility of Hazardous Reaction	No data available
Conditions to Avoid	No data available
Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available

## Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	No information available
Skin Corrosion/Irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory Sensitization	No data available
Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Specific target organ toxicity (single exposure)	No data available

Specific target organ toxicity (repeated exposure)	No data available
Aspiration Hazard	No data available

## Section 12 – ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	No data available
Hazardous to the aquatic environment (long-term)	No data available
Hazardous to the ozone layer	No data available

## Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste	Disposal should be in accordance with applicable regulations and standards by the respective local governments. Commission a waste disposal company, or a local public body who are licensed by local or regional government, to dispose of the material. When commissioning the disposal to a disposal company, notify the danger and toxicity thoroughly to the company. Do not release waste liquid containing the product and used water for cleansing into rivers, etc., or do not discharge the concerned wastes intact for reclamation.
Contaminated Container and Packaging	Recycle containers after cleansing, or carry out the disposal under the related laws and regulations and the standards of the local governments. In case of disposal of empty containers, remove the content thoroughly.

## Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Conform to the provisions of IMO.
	UN No.	1263
	Proper Shipping Class	PAINT 3
	Packing Group	III
	Marine Pollutant	Not applicable
	Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
	Regulatory Information by Air	Conform to the provisions of ICAO/IATA.
	UN No.	1263
	Proper Shipping Class	PAINT 3
	Packing Group	III
Regulations in Japan	Regulatory Information by Road or Rail	Not applicable
	Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
	UN No.	1263

Proper Shipping Name.	PAINT
Class	3
Packing Group	III
Marine Pollutant	Not applicable
Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code	Not applicable
Regulatory Information by Air UN No.	Conform to the provisions of the Civil Aeronautics Law. 1263
Proper Shipping Name.	PAINT
Class	3
Packing Group	III
Emergency Response Guide Number	Not applicable

**Section 15 – REGULATORY INFORMATION**

Regulatory information with regard to this product in your country or in your region should be examined by your own responsibility.

**Section 16 – OTHER INFORMATION**

Information Contact  
Other Property

No information available  
This information is furnished without warranty express or implied.  
This information is believed to be accurate to the best knowledge of PENTEL Co., Ltd. but not assumes leagal responsibility for use of or reliance upon this information.