

## Safety Data Sheet (SDS)

Preparation Date 2013/02/14

Revision Date 2018/10/09

## Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	OPF2-W
Product Code	OPF2W00001
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  X100-W

## Section 2 – HAZARDS IDENTIFICATION

## GHS Classification

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

## GHS Label Elements

## Symbols



## Signal Word

Danger

## Hazard Statements

H336 May cause drowsiness or dizziness  
H372 Causes damage to blood,respiratory apparatus through prolonged or repeated exposure  
H225 Highly flammable liquid and vapour  
H319 Causes serious eye irritation

	H335 May cause respiratory irritation H351 Suspected of causing cancer H360 May damage fertility or the unborn child H370 Causes damage to systemic toxicity,central nervous system H371 May cause damage to liver,respiratory apparatus,kidney H373 May cause damage to liver,nervous system,spleen through prolonged or repeated exposure H411 Toxic to aquatic life with long lasting effects
Precautionary Statements Prevention Precautionary Statements	Keep container tightly closed.(P233)  Keep cool.(P235) Use only non-sparking tools.(P242) 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 Precautionary Statements	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340) Get medical advice and attention if you feel unwell.(P314) 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) If skin irritation or rash occurs, get medical advice and attention.(P333+P313)
Storage Precautionary Statements	Store in a well-ventilated place keeping container tightly closed.(P403+P233)
Disposal Precautionary Statements	Store locked up.(P405) Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

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	19.5%	CH <sub>3</sub> COOC H <sub>2</sub> CH <sub>2</sub> C H <sub>2</sub> CH <sub>3</sub>	(2)-731 (2)-735	2-(6)-226	123-86-4
Isopropanol	14.97%	CH <sub>3</sub> CH(O H)CH <sub>3</sub>	(2)-207	2-(8)-319	67-63-0

Propyleneglycol monomethylether acetate	9.76%		(2)-3144	Existing	108-65-6
Xylene	1.36%	C8H10	(3)-3,(3)-60	Existing	1330-20-7
Titanium dioxide	32.73%	TiO2	(1)-558 (5)-5225	Existing	13463-67-7
Stoddard solvent	2.73%		Unknown	Unknown	8052-41-3

Impurities and/or Stabilizing Additives which Contribute to the

No information available

#### Section 4 – FIRST AID MEASURES

Inhalation

If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing.  
Get medical advice and attention if you feel unwell.

Skin Contact

Wash with plenty of soap and water.  
If skin irritation or rash 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  
Unsuitable Extinguishing Media  
Protection of Fire Fighter

Dry chemicals, CO2, water spray or regular foam.  
Straight streams.

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

Small spills; cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.  
Allow material to solidify, and scrape up.  
After removal, flush contaminated area thoroughly with water.

Prevention Measures for Secondary Accidents	<p>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.</p> <p>Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.</p> <p>Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area).</p> <p>Prevent flowing into drain, sewage, basement, and closed area.</p> <p>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	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".
	Precautions for Safe Handling	<p>Do not eat, drink or smoke when using this product.</p> <p>Wash hand thoroughly after handling.</p> <p>Avoid breathing mist, vapours and spray.</p> <p>Use exhaust ventilation.</p> <p>Avoid contact with eyes.</p> <p>Handle at a well-ventilated place.</p> <p>Protect from high temperature and direct sunlight.</p>
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
	Specific Hygiene Measures	Wash hand thoroughly after handling.
Storage Precautionary Statements	Conditions for Safe Storage	<p>Refer to "Section 10 – STABILITY AND REACTIVITY".</p> <p>Have containers keep away from direct sunlight and heat.</p> <p>Store in a well-ventilated and cool place keeping container tightly closed.</p> <p>Store locked up.</p>
	Material Used in Packaging/Container	Use containers prescribed in the "Fire Service Law (Japan)" and the "UN Transport Regulations".

## Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Wear an adequate protective apparatus for respiratory organs.
	Hand Protection	Wear protective gloves.
	Eye Protection	Wear eye protection.
		Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles).
	Skin and Body Protection	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		17.3°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
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Hazardous to the aquatic environment (long-term)  
Hazardous to the ozone layer

No data available

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

II

Marine Pollutant

Not applicable

Transport in bulk according to MARPOL

Not applicable

73/78, Annex II, and the IBC code

Regulatory Information by Air

Conform to the provisions of ICAO/IATA.

UN No.

1263

Proper Shipping Class

PAINT  
3

Packing Group

II

Regulations in Japan

Regulatory

Not applicable

Information by Road or Rail

Regulatory

Conform to the provisions of the Ship Safety Law.

Information by Sea

UN No.

1263

Proper Shipping Name.

PAINT

Class

3

Packing Group

II

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	II
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	No information available
Other Property	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.