

**Pentel White Permanent Marker 100 W**

## Safety Data Sheet (SDS)

Preparation Date 2013/02/14

**Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name	OPF2—W (Ink ) Product 100W White Marker
Product Code	OPF2W00001
Company Name	PENTEL CO., LTD.
Address	7-2,KOAMICHO,NIHONBASHI,CHUO-KU,TOKYO
Company Contact	Michael Storie TQC Manager
Phone Number	909.975.2238
Emergency Phone Number	800-421-1972
Fax Number	909.975.2291
Mail Address	2715 Columbia Street Torrance Ca. 90503
Recommended Use and Restriction on Use	White Permanent Marker Ink used in X100-W、X100-WD(~2010.10)

**Section 2 – HAZARDS IDENTIFICATION**

## GHS Classification

Physicochemical Hazards	Flammable liquids Category 2
Health Hazards	Acute toxicity – inhalation(vapour) Category 4 Acute toxicity – inhalation(mist) Category 3 Serious eye damage/eye irritation Category 2A Carcinogenicity Category 2 Reproductive toxicity Category 1B Specific target organ toxicity(single exposure) Category 1(kidney,systemic toxicity,central nervous system) Specific target organ toxicity(single exposure) Category 2(liver,respiratory apparatus) Specific target organ toxicity(single exposure) Category 3(respiratory tract irritation) Specific target organ toxicity(repeated exposure) Category 2(spleen,liver,blood vessel,respiratory apparatus,nervous system)
Environmental Hazards	Acute hazards to the aquatic environment Category 2 Chronic hazards to the aquatic environment Category 2 Other hazards than mentioned above are Not applicable or No data available.

GHS Label Elements  
Symbols

Signal Word	Danger
Hazard Statements	H225 Highly flammable liquid and vapour H319 Causes serious eye irritation H331 Toxic if inhaled H332 Harmful if inhaled H335 May cause respiratory irritation H351 Suspected of causing cancer

H360 May damage fertility or the unborn child  
 H370 Causes damage to kidney, systemic toxicity, central nervous system.  
 H371 May cause damage to liver, respiratory apparatus.  
 H373 May cause damage to liver, blood vessel, respiratory apparatus, nervous system, spleen through prolonged or repeated  
 H401 Toxic to aquatic life  
 H411 Toxic to aquatic life with long lasting effects

Precautional  
 Statements  
 Prevention  
 Precautionary  
 Statements

Keep container tightly closed.(P233)

Keep cool.(P235)  
 Use only non-sparking tools.(P242)  
 Do not breathe mist, vapours and spray.(P260)  
 Wash hands 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.(P280)  
 Wear eye protection and face protection.(P280)  
 Use personal protective equipment as required.(P281)

Response  
 Precautionary  
 Statements

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)  
 Get medical advice and attention if you feel unwell.(P314)  
 If skin irritation or rash occurs: Get medical advice and attention.(P333+P313)  
 If eye irritation persists: Get medical advice and attention.(P337+P313)

Storage  
 Precautionary  
 Statements

Store in a well-ventilated place. Keep 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%	CH3COOC	(2)-731	2-(6)-226	123-86-4
		H2CH2C	(2)-735		
		H2CH3			

Isopropanol	14.97%	CH <sub>3</sub> CH(OH)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%	C <sub>8</sub> H <sub>10</sub>	(3)-3 (3)-60	Existing	1330-20-7
Titanium dioxide	32.73%	TiO <sub>2</sub>	(1)-558 (5)-5225	Existing	13463-67-7
Stoddard solvent	2.73%				8052-41-3

Impurities and/or Stabilizing Additives which Cor 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 soap and plenty of water.  
If skin irritation or rash occurs: Get medical advice and attention.

##### Eye Contact

Wash eyes carefully for several minutes with water. Take off contact lenses if easily removed, and continue to wash eyes afterwards.  
When the ocular stimulation lasts, Seek medical treatment and advice.

##### Ingestion

Rinse a mouth. Don't make vomit by force.  
Get medical advice and attention if you feel unwell.

#### Section 5 – FIRE FIGHTING MEASURES

##### Extinguishing Media

Carbon dioxide, dry chemicals, water sprinkling, and general foam extinguishing agents  
Jet water

##### Unsuitable Extinguishing Media

##### Protection of Fire Figther

In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for chemicals

#### 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. Prevent soil contamination, or the product from flowing into the drain systems.

##### Decontamination/Absorption/Sweeping/Vacuming/Neutralization

Absorb or cover with dry soil, sand, or incombustible materials. Then collect them into a container.  
Collect the material into a disposal container by sucking up or sweeping up.  
Absorb spills with inert materials (such as dry sand or soil) and collect them into chemical-waste disposal container.

Methods and Equipment for Containment and Cleaning up

Remove from water surface by skimming, or absorbing with an adequate absorbent.  
If not dangerous, stop the leak.

Prevention Measures for Secondary Accidents

Small amount: Prevent the material from wetting by rain. Cover with dry soil, dry sand, or non-combustibles and store under a plastic sheet cover to avoid scattering and wetting.  
Solidify substances and scrape off.  
Cleansing the contaminated area thoroughly with water after removal.  
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.

Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and Use necessary personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL
	Local and General Ventilation	Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Storage Precautionary Statements	Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid swallowing Avoid the contact with the skin. Do not breathe gas. Do not breathe mist, vapours and spray. Carry out ventilation of the exhaust. Avoid the contact with eyes. Handle at a well-ventilated place. Avoid high temperature and direct sunlight.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "10. STABILITY AND REACTIVITY"
	Technical Measures	The storage facility should be provided with necessary lighting, lighting equipment, and ventilator to store and handle dangerous goods. Refer to "10. STABILITY AND REACTIVITY"
	Incompatible Substances or Mixtures Storage Conditions	Have containers keep away from direct sunlight and heat. Store in a well-ventilated and cool place keeping container tightly closed. Store locked up.
	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

A general proper ventilation is enough to control concentration in air.

Personal Protective Equipment	Respiratory Protection Hand Protection Eye Protection	Wear an adequate protective apparatus for respiratory organs. Use necessary personal protective gloves. Use an adequate personal eye protector. Goggles (ordinary glass type, ordinary glass type with side shields, and goggle type)
	Skin and Body Protection	Wear a protective equipment for the face.  Use the personal protective clothing and full face mask whenever necessary.
Specific Hygiene Measures		Wash hands thoroughly after handling.

#### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State	liquid
	Colour	white
	Odour	characteristic
	pH	No data available
Initial Boiling Point and Boiling Ranges		No information available
Flash Point		17.3°C (Tag Closed Cup)
Auto-Ignition		No information available

#### Section 10 – STABILITY AND REACTIVITY

Stability		The material is stable under storage and handling conditions comprised with the regulations.
Possibility of Hazardous Reaction		No data available
Conditions to Avoid		No data available
Hazardous Decomposition Products		No data available

#### Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity		No information available
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#### Section 12 – ECOLOGICAL INFORMATION

Environmental Hazards		No information available
Ecotoxicity		No information available

#### Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste		For disposal, conform with the standards provided by related laws and local public bodies. Commission the authorized waste disposal company, or a local public body who conducts the disposal, to dispose of the material.
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.

#### Section 14 – TRANSPORT INFORMATION

International Regulations	Regulatory Information by Sea	Conform to the provisions of IMO.
	UN No.	1263
	Proper Shipping Name.	PAINT
	Class	3
	Packing Group	II
	Marine Pollutant	Not applicable

Regulations in Japan	Regulatory Information by Air	Conform to the provisions of ICAO/IATA.
	UN No.	1263
	Proper Shipping Name.	PAINT
	Class	3
	Packing Group	II
	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	II
	Marine Pollutant	Not applicable
	Regulatory Information by Air	Conform to the provisions of the Ship Safety Law.
	UN No.	1263
	Proper Shipping Name.	PAINT
	Class	3
Packing Group	II	

#### 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 Pentel assumes no legal responsibility for use of or reliance upon this information.

Note: This SDS is for the Ink in the Product used by consumers

The Product itself does not require an SDS as it is Safe used as intended and has been tested in accordance to LHAMA and ASTM D4236

By Duke University in the ACMI program as AP Non-Toxic to Humans and requires no labeling. OSHA controls MSDS and SDS Guidelines and

these documents are intended to protect workers in the environment they perform their duties in. As such Consumers Goods, in this case Art Materials

must conform to CPSIA and LHAMA and must be labeled to protect the consumer.