

Safety Data Sheet (SDS)

Preparation Date 2013/02/05

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Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier ZL-W01
 Product Code ZL-W010001
 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 Correction fluids

ZL102-2,W/E/L/LBR/T ZL102HK2/ME2
 ZL103-W/B/F/GG/H/I/J/T/V
 ZL112-WC/L/T/X ZL112WHK
 ZL113-WI/P/T
 ZL1S6/L ZLC1S6/L
 ZL1-W/K/T ZLC1-W/HK/L/MA/TS/V
 ZL31-W/A/C/GG/HK/K/KN/L/MA/MY/SA/T/TS/X
 ZL33T-W/L/T ZL33-W/HK/L/X
 ZL62-W/C/HK/L/LBR/MA/TS/X ZL63-W/GG/ME/P
 ZL72-W/A(T)/G(T)/HK/K(T)/L/LBR/P(T)/S(T)/T
 ZL73-WL/LBR/ME/P
 ZLC21-W
 ZLC31-W/P/T ZLC31WGG
 ZLM1-WT ZLM21-WX
 ZL61S-WBS

Section 2 – HAZARDS IDENTIFICATION

GHS Classification

Physicochemical Hazards Flammable liquids Category 2

Health Hazards Acute toxicity – inhalation (vapour) Category 4
 Serious eye damage/eye irritation Category 2B
 Carcinogenicity Category 2
 Specific target organ toxicity (single exposure) Category 3(narcotic effect)

Environmental Hazards Hazard to the aquatic environment (acute hazard) Category 2
 Hazard to the aquatic environment (long-term hazard) 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
 H320 Causes eye irritation
 H332 Harmful if inhaled
 H336 May cause drowsiness and dizziness
 H351 Suspected of causing cancer
 H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention
Precautionary
Statements

Keep container tightly closed.(P233)

Avoid breathing mist, vapours and spray.(P261)
Wear protective gloves, eye protection and face protection.(P280)
Wash hand thoroughly after handling.(P264)

Response
Precautionary
Statements

IF ON SKIN or hair: Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.(P303+P361+P353)
IF INHALED: Remove 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)

Call a doctor if you feel unwell.(P312)
If eye irritation persists: Get medical advice and attention.(P337+P313)
In case of fire: Use appropriate media for extinction.(P370+P378)

Storage
Precautionary
Statements

Store in a well-ventilated place. Keep cool.(P403+P235)

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.	
1-Propanol, 2-methyl-	0.4%	C4H10O	(2)-3049	Existing	78-83-1
Methylcyclohexane	42.4%	C7H14	(3)-2230	Existing	108-87-2
Titanium dioxide(IV)	40.5%	TiO2	(1)-558,(5)-5225	Existing	13463-67-7
Silicon dioxide	1.3%	SiO2	(1)-548	Existing	7631-86-9

Impurities and/or Stabilizing Additives which Contribute to the

No information available

Section 4 – FIRST AID MEASURES

Inhalation

Get medical advice and attention if you feel unwell.

If breathing is difficult, move affected person to the open air. Keep him or her at rest to allow easier breathing.

Skin Contact

Call a doctor if you feel unwell.
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.

Unsuitable Extinguishing Media

Straight streams.

Protection of Fire Figther

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 Precautions Methods and Equipment for Containment and Cleaning up Prevention Measures for Secondary Accidents		Pay attention not to cause the influence on the environment by discharging into rivers. Allow material to solidify, and scrape up. Prevent flowing into drain, sewage, basement, and closed area.

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	Prohibit use of heat, sparks, and fire in the surrounding area. Avoid contact with eyes and skin. Avoid swallowing. Wash hand thoroughly after handling. Handle at a well-ventilated place.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
Storage Precautionary Statements	Technical Measures	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". Store in a well-ventilated and cool place keeping container tightly closed. Store locked up.
	Material Used in Packaging/Containment	Keep only in original container.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls		Good general ventilation should be sufficient to control airborne levels.
Personal Protective Equipment	Respiratory Protection	Use personal respiratory equipment as required.
	Hand Protection	Use personal gloves as required.
	Eye Protection	Protection glasses (ordinary glasses, ordinary glasses with side shields, and goggles). Use personal eye protection as required.
	Skin and Body 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		-4.4°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
Flammability or Explosive Limits		
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 or 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		
Hazard to the aquatic environment (acute)		No data available
Hazard to the aquatic environment (long-term hazard)		No data available
Hazard 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.
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 Class	PAINT 3
	Packing Group	II

	Marine Pollutant	Not applicable
	Transport in bulk	Not applicable
	according to	
	MARPOL	
	73/78,Annex II ,and	
	the IBC code	
	Regulatory	Conform to the provisions of ICAO/IATA.
	Information by Air	
	UN No.	1263
	Proper Shipping	PAINT
	Class	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	PAINT
	Name.	
	Class	3
	Packing Group	II
	Marine Pollutant	Not applicable
	Transport in bulk	Not applicable
	according to	
	MARPOL	
	73/78,Annex II ,and	
	the IBC code	
	Regulatory	Conform to the provisions of the Ship Safety Law.
	Information by Air	
	UN No.	1263
	Proper Shipping	PAINT
	Name.	
	Class	3
	Packing Group	II
Emergency Response		128
Guide Number		

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.