

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

000316

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29.CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>PENTEL COMPANY, LTD., Head Office</b>		EMERGENCY TELEPHONE NO. <b>USA: (213) 320-3831</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>7-2 Koami-cho, Nihonbashi, Chuo-ku, Tokyo, JAPAN</b>		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS <b>100W Pentel White Marker</b>
CHEMICAL FAMILY <b>Mixture</b>	FORMULA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
(1) N-butyl acetate				19	
(2) Isopropyl alcohol				14	
(3) Ethylene glycol monoethyl ether acetate				9.5	

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	258.8	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER	Insol.		
APPEARANCE AND ODOR	Petroleum Solvent Odor		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) 100.4°F (open)	FLAMMABLE LIMITS	Let	Uel
EXTINGUISHING MEDIA	CO <sub>2</sub> or Chemical foam		
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

Anesthesia without adequate ventilation when used in very large quantities.

EMERGENCY AND FIRST AID PROCEDURES

If ingested, do not induce vomiting.

Consult physician.

### SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid) None

HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
Adequate ventilation, treat as flammable solvent or paint spill.

WASTE DISPOSAL METHOD  
With other petroleum products.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) None

VENTILATION	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL (General)		OTHER

PROTECTIVE GLOVES N.A.      EYE PROTECTION N.A.

OTHER PROTECTIVE EQUIPMENT N.A.

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store near heat source.

OTHER PRECAUTIONS

EPC 834.170