

**Material Safety Data Sheet**

May be used to comply with  
OSHA's Hazard Communication Standard  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration(Non-  
Mandatory Form)  
Form Approved  
OMB No. 1218-0072

**IDENTITY** (As used on Label and list) -

**Silver Marker Ink**

(SCSEF, SCS)

**Silver**

Note: Blank spaces are not permitted. If any item is not  
applicable, or no information is available, the space  
must be marked to indicate that.

**Section 1**

Manufacturer's Name

**PILOT CORPORATION**

Telephone Number

**03-3538-3700**

Address(Number, Street, City State & Zip)

**6-21, Kyobashi 2-Chrome, Chuo-ku**

Fax Number

**03-3538-3909**

**Tokyo, 104-8304 Japan**

Date Prepared

**September 25, 2007**

Signature of Preparer(Optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components(Specific Chemical Identity; Common Name(s))			OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
NAME	CAS. NO.	TLV(PPM)	WT. (%)		COMPONENT	
<b>Ethylcyclohexane</b>	<b>1678-91-7</b>	<b>N.A.</b>	<b>39.4</b>			
<b>Methylcyclohexane</b>	<b>10818712</b>	<b>N.A.</b>	<b>15</b>			
<b>Petroleum disfillates</b>	<b>64742-12-7</b>		<b>5.4</b>			

**Section III - Physical/Chemical Characteristics**

Boiling Point	<b>131.8 °c (ECH)</b>	Specific Gravity (H2O=1)	<b>N.A.</b>
Vapor Pressure(mm Hg)	<b>0.13 kpa(20.0°c )</b>	Melting Point	<b>413°</b>
Vapor Density(Air=1) <b>0.895 (20.0 °c)</b>	<b>N.A.</b>	Evaporation Rate (Butyl Acetate = 1)	<b>N.A.</b>
Solubility in Water <b>Insoluble</b>			
Appearance and Odor <b>Liquid with distinct odor</b>			

**Section IV - Fire and Explosion Hazard Data**

Flash Point(Method Used) <b>7.0 °c</b>		Flammable Limits <b>6.6% (g/m³) 0.9% (g/m³)</b>		LEL <b>N.A.</b>	UEL <b>N.A.</b>
Extinguishing Media <b>Water, spray, foam, dry chemical powder or carbon dioxide</b>					
Special Fire Fighting Procedures <b>Apply water from a safe distance to cool and protect surrounding area.</b>					
Unusual Fire and Explosion Hazards <b>None</b>					
<b>Section V- Reactivity Data</b>					
Stability	Unstable			Conditions to Avoid	
	Stable		<b>X</b>	<b>None</b>	
Incompatibility (Materials to Avoid)	<b>None</b>				
Hazardous Decomposition or Byproducts	<b>None</b>				
Hazardous Polymerization	May Occur			Condition to Avoid	
	May Not Occur		<b>X</b>	<b>None</b>	
<b>Section VI - Health Hazard Data</b>					
Route(s) of Entry:	Inhalation? <b>Yes (Ink)</b>	Skin? <b>Yes (Ink)</b>	Ingestion? <b>Yes (Ink)</b>		
Health Hazards(Acute and Chronic) <b>N.D.</b>					
Carcinogenicity:	NTP? <b>None</b>	IARC Monographs? <b>None</b>	OSHA Regulated? <b>None</b>		
Signs and Symptoms of Exposure <b>N.D.</b>					
Medical Conditions					
Generally Aggravated by Exposure <b>N.D.</b>					
Emergency and First Aid Procedures <b>Inhalation: Remove to fresh air; seek medical help. Ingestion: Seek medical help. Eyes: Flush with clean water for at least 15 mins.; seek medical help. Skin: Wash off in flowing water using a mild soap; seek medical help.</b>					
<b>Section VII - Precautions for Safe Handling and Use</b>					
Steps to Be Taken in Case Material is Released or Spilled					

***Absorb with material ( e.g. dry sand or cloth), place in a chemical waste container.***

Waste Disposal

***In accordance with national, state and local regulations.***

Precautions to Be Taken in Handling and Storing ***Avoid rough handling or dropping. Keep container tightly closed. Wear protective safety glasses, gloves. Store in a well ventilated, non-combustible location away from all possible source of ignition.***

***Avoid high temperature.***

Other Precautions

## Section VIII - Control Measures

Respiratory Protection(Specify Type) ***Industrial Canister; Gas Masks***

Ventilation

Local Exhaust ***Not Required***

Special ***Not Required***

Mechanical(General) ***Not Required***

Other ***Not Required***

Protective Gloves

***Rubber Gloves***

Eye Protection

***Safety glasses***

Other Protective Clothing or Equipment

***Not Required***

Work/Hygienic Practices

***Not Required***



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