

Material Safety Data Sheet

Easy-Read® Liquid Inside Thermometer

Manufacturer:
H-B Instrument Company
102 West Seventh Avenue
Trappe, PA 19426 USA

Date: February 10, 2004

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EMERGENCY TELEPHONE

Chem-Tel, Inc.
1-800-255-3924

INFORMATION TELEPHONE

H-B Instrument Company
610-489-5500
1-800-4-TEST-LAB
Fax: 610-489-9100

I. PRODUCT INFORMATION

Identity: Easy-Read® Liquid Inside Thermometer
Chemical Name: Mixture of Biodegradable Technical White Oil, Natural Citrus Oils and Black Anthroquinone Dye (MSDS attached)
Chemical Family: Hydrocarbon and Monoazo – Anthroquinone Dye
Formula: Not Applicable
CAS Registry Number: N/A
DOT Shipping Name: N/A
DOT Hazard Class: N/A
Contents of thermometers less than 0.3 ml.
This product is exempt in containers under 110 gallons.
DOT Reg. #49CFR 173.118A

II. HAZARDOUS INGREDIENTS

Component(s)	Hazard Information		
	OSHA PEL	ACGIH TLV	OTHERS
NONE KNOWN	N/A	N/A	N/A

No other hazards per OSHA 29 CFR1910.1200. None under Title III of Sara

III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Vapor Pressure (mm HG): Not Determined
Vapor Density (Air = 1): Not Determined
Solubility in Water: <0.03% By Weight
Appearance and Odor: Black Liquid, Citrus Smell, Volatile
Specific Gravity (H2O-1): 0.806 at 23°C (ASTM D-792)
Melting Point: N/A
Evaporation Rate (Butyl Acetate = 1): 0.04

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 73.3°C (T.C.C. ASTM D-56)
Flammability Limits in Air, LEL: Not Known
UEL: Not Known
Extinguishing Media for Fires: Water Fog, Carbon Dioxide, Foam, Dry Chemical
Special Fire Fighting Procedures: Do not use stream of water
Unusual Fire and Explosion Hazards: May produce dense black smoke and potentially toxic fume if bulk quantity of liquid is allowed to combust.

V. REACTIVITY DATA

Stability:	Stable
Conditions to Avoid (Stability):	Away from heat or flame
Materials to Avoid:	Strong oxidizing or reducing agent
Hazardous Decomposition Products:	Oxides of carbon, nitrogen and sulfur on combustion
Hazardous Polymerization Product:	May Not Occur
Conditions to Avoid (Polymerization):	None Known

VI. HEALTH HAZARD DATA

Carcinogen or Potential Carcinogen	NTP:	IARC:	OSHA:
	N/A	N/A	N/A
Health Hazard (Acute or Chronic)			
Skin:	Skin corrosive agent per USFHS, NOT EXPECTED TO BE A HAZARD IN THE NORMAL INTENDED USE OF THE THERMOMETER		
Eyes:	NOT AN EYE IRRITANT PER USFHS		
Ingestion:	Acute oral LD50 > 5g/kg in rat, human ingestion hazard not known		
Inhalation:	Not Known		
Effects of Over-Exposure:	Corrosive to skin, NOT EXPECTED TO BE A HAZARD IN THE NORMAL INTENDED USE OF THE THERMOMETER		
Medical conditions generally Aggravated by Exposure:	Not Known		

EMERGENCY FIRST AID PROCEDURES

Skin: Wash immediately with water. Consult physician if irritation occurs
 Eyes: Wash immediately with water. Consult physician if irritation occurs
 Ingestion: Do not induce vomiting. Consult physician at once
 Inhalation: If liquid enters into lung, consult physician at once

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Spill or Leak Procedures:	Absorb with dry sand or oil absorbent
Disposal Recommendations:	Comply with federal, state or local regulation
Storage & Handling Recommendations:	Keep away from heat or flame
Other precautions:	None Known

VIII. CONTROL MEASURES

Respiratory Protection:	None required under normal use condition
Ventilation:	Local
Protective Gloves:	None required under normal use conditions
Eye Protection:	None required under normal use conditions
Other Protective Equipment or Clothing:	Chemical-resistant protective clothing if handling bulk quantity of liquid
Work Hygiene Practice:	Standard Industrial Hygiene Practices Recommended in Handling Bulk Quantity of Liquid

IX. REGULATORY INFORMATION

OSHA Compliance:	Please see Section II
State Right-To-Know Compliance:	
Pennsylvania:	No known hazardous component
New Jersey:	No known hazardous component
Massachusetts:	No known hazardous component
California:	No known hazardous component
Federal Compliance:	May contain component(s) subjected to EPA TSCA Section 8(e) Status Report – May be regulated under other Federal Regulations

X. WARRANTY LIMITATION

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MATERIAL SAFETY DATA SHEET

Calco Oil Black ZMM

SECTION I — IDENTIFICATION

Company Name: Pylam Products
Emergency Phone Number: 480-929-0070
Effective Date: 12/30/1999
Revised Date: 01/01/2002
Chemical Name: Solvent Black 000
Trade Name: Calco Oil Black ZMM
Chemical Family: Anthraquinone, Anthraquinone, Disazo
Chemical Formula: Solvent Green 3 CAS# 128-80-3, Solvent Violet 13 CAS# 81-48-1,
Solvent Yellow 72 CAS# 4645-07-2, Solvent Red 26 CAS #4477-79-6

SECTION II — HAZARDOUS INGREDIENTS

Hazardous Components	Hazardous % TLV (Units)	Prod. CAS#
None as per 29CFR Part 1910.1200		Listed above
None under Title III of SARA		

SECTION III — PHYSICAL DATA

Boiling Point (°F): N/A
Freezing Point (°F): N/A
Volatility/Vol. (%): N/A
Melting Point: N/A
Vapor Pressure: N/A
Vapor Density (Air=1): N/A
Solubility in H₂O: Soluble
Appearance/Odor: Dark Powder/No odor
Specific Gravity (H₂O=1): N/A
Evaporation Rate: N/A
pH: N/A

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Lower Flame Limit: N/A
Higher Flame Limit: N/A
Extinguish Media: In case of fire use water spray, foam, dry chemical or CO₂.
For Fire: Dust may form explosive mixture with air.
Unusual Fire Hazard: None

SECTION V — HEALTH HAZARD DATA

Threshold Limit Value: N/A
Overexposure Effects: LD50, Oral (ingestion) – greater than 5000 Mg/Kg; no further information was found concerning any adverse acute/chronic health effects resulting from overexposure to this product.

First Aid Procedures:

Inhalation: If large amounts are inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen and call a physician.

Skin Contact: Flush skin with plenty of water after excessive contact. Wash thoroughly with hand cream or hand cleaner.

Eye Contact: Flush eyes immediately with plenty of water for at least 15 minutes. Call a physician.

Ingestion: Induce vomiting immediately by giving two glasses of water. Get medical attention. Never give fluids to an unconscious person.

SECTION VI — REACTIVITY DATA

Chemical Stability: Stable
Conditions to Avoid: None
Incompatible Materials: Oxidizing and reducing agents may destroy color
Decomposition Products: CO, CO₂, Oxides of Nitrogen, Sulfur, and other potentially toxic fumes
Hazardous Polymerization
Polymerization Avoid: None expected

SECTION VII — SPILL OR LEAK PROCEDURE

For Spill: Spills should be swept up and placed in containers. Spill areas can be washed with water. Collect wastewater for approved disposal.

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

SECTION VII (A) — REGULATORY INFORMATION

MITI (Japanese): We do not have access to inventory
AICS (Australian): We do not have access to inventory
Calif. Prop. 65: None unless indicated in Sect. II
EPA (TSCA): All components are in compliance
EINECS/ELINCS: All components should be listed; see CAS number(s)
RCRA: Not regulated
CERLA: Not regulated
WHMIS: See component(s) – CAS numbers
USDA: Many products are on file. Please check with our registration department.
DSL/NDSL: All components should be listed – see CAS number(s)
Carcinogenicity: NTP, IARC, OSHA: None unless indicated in Section II of this MSDS.

SECTION VIII — SPECIAL PROTECTION

Respiratory Protection:	Employees should avoid inhalation of dusts. Whenever potential for dusting exists, appropriate NIOSH/MSHA approved respirator with dust filter should be worn.
Ventilation:	Use local ventilation if dusting is a problem
Protective Gloves:	Wear suitable gloves
Eye Protection:	Wear eye/face protection
Other Protective Equip.:	None
Handling & Storage:	In accordance with good industrial practices. Handle with care to avoid contact.

SECTION IX — SPECIAL PRECAUTIONS

Hazard Class:	None
DOT Shipping Name:	None
Reportable Quantity (RQ):	None
UN Number:	None
NA Number:	None
Packaging Size:	N/A

Pylam Products Company Incorporated
2175 East Cedar Street Tempe, AZ 85281-7431

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