SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Durac® Biodegradable Liquid

PRODUCT NUMBER: DURAC Liquid TRADE NAME:

Liquid for thermometer fill. GENERAL USE: CHEMICAL FAMILY: Acetone plus red colored dye.

PRODUCT DESCRIPTION: Red liquid with nail polish odor. **H-B Instrument Company**

DATE: 6/4/2009

SERVING THE WORLD SINCE 1903

MANUFACTURER

H-B Instrument Company ADDRESS (NUMBER, STREET, P.O. BOX)

102 West Seventh Avenue

(CITY, STATE AND ZIP CODE)

Trappe, PA 19426

COUNTRY USA

SUPERSEDES: New Issue TELEPHONE NUMBER FOR INFORMATION / Customer Service

610-489-5500

June 4, 2009

CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER

1-800-255-3924 North America Toll Free 813-248-0585 International

Acetone	NR	67-64-1	200-662-2	F, Xi	R11, 36, 66, 67	
Hazardous Components	% (by Weight)	CAS#	EINECS#	Hazard Symbol	RISK PHRASES (Full Text Section 15)	
SECTION 2 - HAZARDOUS INGREDIENTS						

Notes:

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006/EEC. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 1997/2006/EEC.

DATE PREPARED:

ChemTel

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable liquid, potentially hazardous vapors. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas.

POTENTIAL HEALTH EFFECTS

INHALATION:

High concentrations are irritating to the respiratory tract. May cause headache, dizziness, nausea, vomiting and malaise. Intentional concentration and inhalation of vapors may lead to nervous system damage.

Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis.

High vapor concentration or contact may cause irritation and discomfort.

INGESTION:

May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts aspirated into the lungs can produce severe lung injury, chemical pneumonitis, pulmonary edema or death

CARCINOGENICITY:

NTP? NO

IARC MONOGRAPHS? NO

OSHA REGULATED?

NO

CALIFORNIA, Prop.65?

NO

ESIS NOTATION?

NO

SECTION 4-FIRST AID MEASURES

INHALATION:

Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention. Do not use over-the-counter products except under physician directions.

Remove & launder contaminated clothing, wash affected area with soap and water, & seek medical help for persistent irritation. NGESTION:

DO NOT INDUCE VOMITING!!! If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek mmediate emergency medical attention; transport container with victim to assist with treatment.

PRODUCT NAME: PRODUCT NUMBER: **DURAC Liquid Fill for Thermometers**

DATE: 6/4/2009
SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Product is flammable, with a flash point of - 18° C (0° F). Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide. Vapors may cause a flash fire or ignite explosively. vapors may travel a considerable distance to a source of ignition and flash back.

EXTINGUISHING MEDIA:

Carbon dioxide, water fog, dry chemical, chemical foam. Avoid the use of streaming water, as this may spread fire.

FIRE FIGHTING PROCEDURES:

Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers of fluid can explode due to buildup of pressure when exposed to extreme heat. Use of water fog or stream to cool containers is suggested..

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, soot, fumes or vapors, oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

CAUTION - HIGHLY FLAMMABLE LIQUID - Evacuate and ventilate area, remove all sources of sparks, ignition and open flames, and turn off electrical circuits in area. Wear personal protective equipment, including organic vapor respirator or self-contained breathing apparatus, as needed. For small spills, confine product and absorb into approved absorbent; place material into approved flammable waste containers for disposal. Treat used absorbent as flammable. For large spills, evacuate area and contact authorities.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

CAUTION - FLAMMABLE - keep open container away from all sources of ignition. Avoid temperature extremes.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION								
	NIOSH				ACGIH		OSHA	
HAZARDOUS COMPONENTS	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Acetone	250	590			500		1000	2400

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Not required for normal work situations where adequate ventilation is provided. Use NIOSH or European EN-149 approved self contained, positive pressure respirators for emergencies and in situations where air may be displaced by vapors. Follow OSHA Std. 29CFR 1910.134 or corresponding EU Directives.

PROTECTIVE GLOVES:

Not Generally needed, wear gloves (neoprene) to handle spills.

EYE PROTECTION:

Chemical safety goggles, preferably with side shields should be worn as a matter of proper industrial practice. Refer to 29 CFR 1910.133 within the US or European Standard EN166 within the EU.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Provide a safety eyewash nearby, in case of splash injury. Where extensive dermal exposure may be expected, either a chemical suit or a chemical apron will be needed. Neoprene is a good compromise material between chemical resistance, physical durability, and cost.

WORK / HYGIENIC PRACTICES:

Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general. Do not smoke, eat or drink while using the product. Wash hands with soap and water before smoking, eating, drinking or using toilet facilities. Launder contaminated clothing before re-use.

PRODUCT NAME: I PRODUCT NUMBER:	DURAC Liquid Fill for T	hermometers	DATE: 6/4/	2009		
SECT	ION 9 - PHYSICAL	AND CHEMICAL P	ROPERTI	ES		
APPEARANCE AND ODOR		VAPOR PRESSURE				
Red liquid with nail polish odor.		NR				
pH		SPECIFIC GRAVITY (WATER = 1)				
NA		0.8				
BOILING POINT / BOILING RANGE		SOLUBILITY IN WATER				
133°F (56°C)		Miscible				
FLASH POINT		VISCOSITY				
-4°F (-20°C)		NA				
FLAMMABLE LIMITS		VAPOR DENSITY (AIR = 1)				
LEL: 2.2 UEL: 1	13	~1.2				
AUTOIGNITION TEMPERATURE		EVAPORATION RATE BuAc = 1)				
NR		>1				
	NATIONAL STORMS AND ADDRESS OF THE STORM AND ADDRESS OF THE STORM AND ADDRESS OF THE STORMS AND ADDRESS OF THE STORMS AND	BILITY AND REAC	HVITY			
STABILITY	STABLE X	CONDITIONS TO AVOID:				
		Avoid contact with incompat	tible materials	•		
INCOMPATIBILITY (MATERIALS TO	O AVOID):					
Strong oxidizers, Strong acids.						
HAZARDOUS DECOMPOSITION O	R BYPRODUCTS:					
Carbon monoxide, Carbon dioxide.		CONDITIONS TO AVOID:				
HAZARDOUS POLYMERIZATION:		None related to polymeriza	tion			
Will not occur.		·				
S		COLOGICAL INFOR		<u> </u>		
Hamadaya Cammananta	CAS # EINECS #	LD50 of Ingredie (Specify Species and		LC50 of Ingredient (Specify Species)		
Hazardous Components	67-64-1	5,500 mg/kg (Intravenous,		50,100 mg/m ³ /8 hour		
Acetone	200-662-2	5,800 mg/kg (oral, rat)	,,	(inhalation, rat)		
	SECTION 12 - ECO	DLOGICAL INFORM	ATION			
Product is biodegradable and does						
	SECTION 13 - DISI	POSAL CONSIDERA	ATIONS			
WÄSTE DISPOSAL METHOD:						
Product is biodegradable and may be	e disposed of to sewage tre	atment facilities. This produc	ct has been ev	valuated for RCRA		
characteristics and does not meet the criteria for a hazardous waste, if discarded in its purchased form.						
SECTION 14 - TRANSPORT INFORMATION						
PROPER SHIPPING NAME:		Acetone, UN 1090 (Internat				
DOT HAZARD CLASS / Pack Group:		IATA HAZARD CLASS / Pa		3 / PG II (see below)		
REFERENCE: 49 CFR172,1		IMDG HAZARD CLASS:		·		
		RID/ADR Dangerous Goods		3		
UN / NA IDENTIFICATION NUMBER:	1090	ľ		3		
LABEL: ORM-D or Flammable		UN TDG Class / Pack Grou	-			
HAZARD SYMBOLS:	<u> </u>	Hazard Identification Number		33		
consumer commodity ORM-D	FLAMMABLE	IATA Regulations may allow quantities. Contact IATA or shipper for full requirements	the Dangerou	uct to be shipped in excepted is goods specialists at your		
	3		W 0550	10 parts 100 177 IMDG		

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

DURAC Liquid Fill for Thermometers PRODUCT NAME: DATE: 6/4/2009 PRODUCT NUMBER: SECTION 15 - REGULATORY INFORMATION Ingredients referenced. TSCA (USA - Toxic Substance Control Act): SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): Chronic Health: NO Acute Health: Yes Sudden Release of Pressure: NO Yes Fire: NO Reactive: 313 REPORTABLE INGREDIENTS: Acetone (CAS 67-64-1) CERCLA (USA - Comprehensive Response Compensation and Liability Act): Acetone - RQ 5000 lbs (2260 kg) California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: None listed. State Right to Know Laws: Acetone listed - CA, NJ, PA, MN, MA, FL CLASS B-2: Flammable liquid with a flash point lower than CPR (Canadian Controlled Products Regulations): 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC). IDL (Canadian Ingredient Disclosure List): Listed DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on CDSL. EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced. WGK Water Quality Index: SAFETY PHRASES: SYMBOL(S) REQUIRED FOR EU LABEL RISK PHRASES: S2: Keep out of the reach of children R11: Highly flammable. S26: In case of contact with eyes, R36: Irritating to eyes. rinse immediately with plenty of water R66: Repeated exposure and seek medical advice. may cause skin dryness or S46: If swallowed, seek medical cracking. advice immediately and show this R67 Vapors may cause container or label. drowsiness and dizziness. Flammable SECTION 16 - OTHER INFORMATION egend: NE= Not established NR= Not reported NA= Not applicable. 0 = INSIGNIFICANT 2 HEALTH: HMIS HAZARD RATINGS 1 = SLIGHT 4 FLAMMABILITY: 2 = MODERATE PHYSICAL HAZARD: 0 3 = HIGH PERSONAL PROTECTIVE Α 4 = EXTREME EQUIPMENT:

REVISION SUMMARY:

New Issue 6/4/2009.

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.