

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION	
PRODUCT NAME: DURAC Liquid	DATE: 6/4/2009
PRODUCT NUMBER: DURAC Liquid	
GENERAL USE: Liquid for thermometer fill.	
CHEMICAL FAMILY: Acetone plus red colored dye.	
PRODUCT DESCRIPTION: Red liquid with nail polish odor.	
	
MANUFACTURER: H-B Instrument Company	DATE PREPARED: June 4, 2009
ADDRESS (NUMBER, STREET, P.O. BOX): 102 West Seventh Avenue	SUPERSEDES: New Issue
CITY, STATE AND ZIP CODE: Trappe, PA 19426	TELEPHONE NUMBER FOR INFORMATION / Customer Service: 810-489-5500
COUNTRY: USA	CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER: 1-800-355-3924 813-248-0585
ChemTel Inc. North America Toll Free International	
SECTION 2 - HAZARDOUS INGREDIENTS	
Hazardous Components	% (by Weight)
Acetone	NR
CAS #	67-64-1
EINECS #	200-662-2
Hazard Symbol	F, Xi
RISK PHASES (Full Text Section 15)	R11, 36, 67
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 (28CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 1987/2006/EEC.	
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.	
SKIN: Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis.	
EYES: 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 ESIS NOTATION? NO	
CALIFORNIA, Prop 65? 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.	
EYES: 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.	
SKIN: Remove & launder contaminated clothing; wash affected area with soap and water, & seek medical help for persistent irritation.	
INGESTION: DO NOT INDUCE VOMITING!! If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek immediate emergency medical attention; transport container with victim to assist with treatment.	

SECTION 5 - FIRE-FIGHTING MEASURES	
PRODUCT NAME: DURAC Liquid	DATE: 6/4/2009
PRODUCT NUMBER: DURAC Liquid	
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. Fire 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, contain 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	
HAZARDOUS COMPONENTS	OSHA
Acetone	250 500 500 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 / HYGIENE 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.	

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: DURAC Liquid Filler for Thermometers PRODUCT NUMBER:		DATE: 6/4/2009	
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR: Red liquid with nail polish odor.			
VAPOR PRESSURE: NR			
SPECIFIC GRAVITY (WATER = 1): 0.8			
SOLUBILITY IN WATER: Miscible			
VISCOSITY: NA			
FLASH POINT: 4°F (-20°C)			
FLAMMABLE LIMITS: LEL: 2.2 UEL: 13			
AUTOIGNITION TEMPERATURE: NR			
EVAPORATION RATE: Buac = 1			
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY: STABLE			
CONDITIONS TO AVOID: X Avoid contact with incompatible materials.			
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, Strong acids. HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide, Carbon dioxide. HAZARDOUS POLYMERIZATION: Will not occur.			
CONDITIONS TO AVOID: None related to polymerization.			
SECTION 11 - TOXICOLOGICAL INFORMATION			
LC50 of Ingredient (Specify Species and Route) 5,500 mg/kg (Intravenous, rat)	LD50 of Ingredient (Specify Species) 50,100 mg/m ³ 8 hour (Inhalation, rat)	HAZARDOUS COMPONENTS: Acetone	
SECTION 12 - ECOLOGICAL INFORMATION Product is biodegradable and does not have a persistent or toxic environmental impact.			
SECTION 13 - DISPOSAL CONSIDERATIONS Product is biodegradable and may be disposed of to sewage treatment facilities. This product has been evaluated 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: ORM-D (Within US only), Acetone, UN 1090 (International, Bulk)			
DOT HAZARD CLASS / Pack Group: 3 / PG II (International)			
REFERENCE: 49 CFR 172.173			
UN / NA IDENTIFICATION NUMBER: 1090			
LABEL: ORM-D or Flammable			
HAZARD SYMBOLS:			
			
CONSUMER QUANTITY: ORM-D			

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.

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PRODUCT NAME: DURAC Liquid Filler for Thermometers PRODUCT NUMBER:		DATE: 6/4/2009	
SECTION 15 - REGULATORY INFORMATION			
TSCA (USA - Toxic Substance Control Act): Ingredients referenced.			
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health: Yes			
Chronic Health: NO			
Sudden Release of Pressure: NO			
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			
CPR (Canadian Controlled Products Regulations): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F), CLASS D-2B: Material causing other toxic effects (TOXIC).			
			
IDL (Canadian Ingredient Disclosure List): Listed			
DSL / NDSSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on CDSL.			
EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced.			
WGK Water Quality Index: 1			
RISK PHRASES:		SYMBOL(S) REQUIRED FOR EU LABEL:	
R11: Highly flammable. R36: Irritating to eyes. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapors may cause drowsiness and dizziness.		 Flammable  Irritant	
S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S46: If swallowed, seek medical advice immediately and show this container or label.		SAFETY PHRASES:	
SECTION 16 - OTHER INFORMATION			
Legend: NE = Not established NR = Not reported NA = Not applicable.			
HMIS HAZARD RATINGS:		HEALTH:	
FLAMMABILITY: 2		FLAMMABILITY: 2	
PERSONAL PROTECTIVE EQUIPMENT: A		PERSONAL PROTECTIVE EQUIPMENT: A	
REVISION SUMMARY: New Issue 6/4/2009.			
MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3824 Int. +01 813-248-0573 Website: www.chemtelinc.com			
			

The information contained herein is believed to be accurate, but is not warranted to be correct. Users are advised to consult appropriate regulatory authorities for the most current regulations and standards for the use of this product. Users are advised to consult appropriate regulatory authorities for the most current regulations and standards for the use of this product. Users are advised to consult appropriate regulatory authorities for the most current regulations and standards for the use of this product. Users are advised to consult appropriate regulatory authorities for the most current regulations and standards for the use of this product.