




SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: Test C – Barbiturates Order No. 6073					
PRODUCT NUMBER(S): 6073			DATE: September 26, 2008		
TRADE NAME: Test C – Barbiturates GENERAL USE: Presumptive Test Kit for Barbiturates CHEMICAL FAMILY: NA PRODUCT DESCRIPTION: 1st Ampoule – Pink color with odor of alcohol. 2nd Ampoule – Clear liquid with odor of Isopropylamine (ammonical odor).					
MANUFACTURED FOR: Safariland LLC			DATE PREPARED: September 26, 2008		
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway			SUPERSEDES: April 15, 2008		
(CITY, STATE AND ZIP CODE) Jacksonville, FL 32218		COUNTRY USA	CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER		
					
SECTION 2 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Methanol 1st ampoule	>90	67-56-1	200-659-6	(+F),(+T)	R11, R23/24/25, R39/23/24/25.
Methanol, 2nd Ampoule	>90	67-56-1	200-659-6	(+F),(+T)	R11, R23/24/25, R39/23/24/25.
Isopropylamine: 2nd Ampoule (cap)	1-10	75-31-0	200-860-9	(+F),(Xi)	R12, R36/37/38
Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.					
SECTION 3 - HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW					
Irritation of eyes, nose, and throat. Inhalation of vapors may be injurious to the lungs. Repeated or prolonged exposure to solutions may cause irritation of the skin. May be harmful if absorbed through the skin. Combustible liquid and vapor. May cause central nervous system depression. May cause reproductive and fetal effects. Target Organs: Kidneys, central nervous system, teeth. Isopropylamine: Extremely flammable liquid and vapor. Vapor may cause flash fire. Causes eye and skin burns. Causes digestive and respiratory tract burns. Harmful if swallowed, inhaled, or absorbed through the skin. Target Organs: Eyes, skin, mucous membranes. May cause lung damage. Hygroscopic (absorbs moisture from the air). Very toxic to aquatic organisms. Target Organs: Respiratory system, eyes, skin. Methanol: Warning! May be fatal or cause blindness if ingested. May be harmful if inhaled or absorbed through skin. May cause CNS depression, kidney and liver damage. Medical Conditions Aggravated by Exposure: Skin, eye, respiratory, liver, kidney, and CNS diseases.					
POTENTIAL HEALTH EFFECTS					
INHALATION:					
Irritation of throat. Inhalation of vapors and or Isopropylamine may be injurious to the lungs and with repeated inhalation chronic irritation/inflammation of nose, throat, and bronchial tubes. Isopropylamine irritates mucous membranes and respiratory tract, and causes severe irritation, blisters, and burns on prolonged contact. Methanol causes Cough. Dizziness. Headache. Nausea. Weakness. Visual disturbance. May be harmful if inhaled.					
SKIN:					
Irritation and or burns by direct contact. Delayed onset contact dermatitis is also possible with chronic repeated exposure to both ampoule 1 and ampoule 2 chemicals.					
EYES:					
Chronic irritation of eyes, corneal burns are possible with exposure to Isopropylamine. (Ampoule 2). Methanol is toxic to eyes.					
INGESTION:					
Severe irritation and ulceration of the gastrointestinal tract. Vomiting and diarrhea are also symptoms. Will cause CNS depression, kidney liver and eye damage if ingested. Very toxic by ingestion! Shortness of breath. Vomiting. Convulsions. Unconsciousness. (Further see Inhalation).					
CARCINOGENICITY:					
NTP? No		IARC MONOGRAPHS? Yes, CAS# 6147-53-1.		OSHA REGULATED? No	
CALIFORNIA, Prop.65? NO					
ESIS? NO					
SECTION 4 - FIRST AID MEASURES					
INHALATION:					
Remove to fresh air, apply CPR if victim is unconscious, administer oxygen, seek immediate medical attention.					
EYES:					
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek immediate medical attention.					
SKIN:					
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention.					
INGESTION:					
If swallowed, give plenty of water to dilute substances, do not induce vomiting; if conscious, give large quantities of water immediately to dilute the Isopropylamine. If vomiting occurs spontaneously, keep the head below the waist to avoid aspiration. Call a physician immediately.					




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SECTION 5 - FIRE FIGHTING MEASURES							
GENERAL HAZARDS: Isopropylamine emits toxic and irritating gases when involved in a fire. Vapors may travel considerable distance to source of ignition and flash back. Water spray may be ineffective as extinguishing agent.							
EXTINGUISHING MEDIA: Use extinguishing media such as foam, CO2 or dry chemical for Methanol and Isopropylamine. Water may be ineffective.							
FIRE FIGHTING PROCEDURES: Use NIOSH/MSA or European EN-149 approved respirators rated for strong bases such as ammonia for Ampoule 2 fires, or SCBA equipment.							
UNUSUAL FIRE AND EXPLOSION HAZARDS: Under fire conditions wearing NIOSH/MSA or European EN-149 approved respirators or SCBA's is required. Vapors may travel considerable distance to source of ignition and flash back. Water spray may be ineffective as extinguishing agent.							
HAZARDOUS COMBUSTION PRODUCTS: Hazardous vapors may form from heated material.							
SECTION 6 - ACCIDENTAL RELEASE MEASURES							
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear protective equipment; ventilate area; absorb on paper towels or vermiculite and dispose as hazardous waste.							
SECTION 7 - HANDLING AND STORAGE							
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store and handle according to packaged instructions. Store in cool, well ventilated area. Keep away from reactive materials and sources of ignition. Avoid breathing Isopropylamine / Methanol vapor and prevent vapor accumulation in enclosed areas.							
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION							
HAZARDOUS COMPONENTS	NIOSH			ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm
Methanol 1st&2nd ampoules	200		6000 IDLH		200		200
Isopropylamine: 2nd Ampoule (cap)	5		750 IDLH		5		5 12
PERSONAL PROTECTION							
RESPIRATORY PROTECTION: NIOSH/MSA or European EN-149 approved ammonia vapor respirator for minor Isopropylamine spills.							
PROTECTIVE GLOVES: Impervious gloves (neoprene, nitrile) required when any contact potential with contents exists.							
EYE PROTECTION: Do not get in eyes, wear safety glasses with side shield splash protection or chemical goggles.							
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: An eye wash fountain and safety shower should be readily available where the potential for contact exists.							
WORK / HYGIENIC PRACTICES: Wash thoroughly after handling. Be prepared to clean up toxic Isopropylamine.							
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES							
APPEARANCE AND ODOR 1st Ampoule – Pink color with odor of alcohol. 2nd Ampoule – Clear liquid with odor of Isopropylamine (ammonical odor).				VAPOR PRESSURE 97 mm Hg - Ampoule 1 331 mm Hg- Ampoule 2			
VOC NE Volatility NE				SPECIFIC GRAVITY (WATER = 1) 0.8 (Ampoule 1), 0.79 (Ampoule 2)			
BOILING POINT / BOILING RANGE 33-34°C(91-94°F) Isopropylamine, 65°C(149°F) Methanol				SOLUBILITY IN WATER Soluble			
FLASH POINT 54°F (12°C) Ampoule 1, 63°F (79°C) Ampoule 2				VISCOSITY NA			
FLAMMABLE LIMITS LEL: 6% UEL: 36%				VAPOR DENSITY (AIR = 1) 1.1 (Ampoule 1) , 1.15 (Ampoule 2)			
AUTO-IGNITION TEMPERATURE 867°F (464°C) Ampoule 1, 756°F (402°C) Ampoule 2				EVAPORATION RATE (WATER = 1) 5.9 (Ampoule 1) , 23.9 (Ampoule 2)			

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SECTION 10 - STABILITY AND REACTIVITY			
STABILITY	STABLE	x	CONDITIONS TO AVOID: Excessive heat, contact with incompatible materials.
INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers such as permanganates, chromium trioxide, perchlorates, periodates.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Toxic gases and vapors (such as oxides of nitrogen and carbon monoxide) may be released in a fire involving Isopropylamine.			
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.		
SECTION 11 - TOXICOLOGICAL INFORMATION			
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Methanol 1st&2nd ampoules	67-56-1	Oral LD50 Rat=5,600mg/Kg. Oral LDLo Human=143mg/kg	Inhalation LD-Lo Human=300ppm.
	200-659-6		
Isopropylamine, 2nd Ampoule	75-31-0	Oral, rat LD50=111mg/kg	Inhalation rat LC50=4000ppm/4hour.
	200-860-9		
SECTION 12 - ECOLOGICAL INFORMATION			
<p>For Isopropylamine: Ecotoxicity: Water flea Daphnia: EC50 = 91.5-91.6 mg/L; 48 Hr; Unspecified Based on the vapor pressure, isopropylamine should rapidly evaporate from dry surfaces, especially when present in high concn. such as in spill situations. The miscibility of isopropylamine in water suggests that adsorption and bioconcentration, in addition to volatilization, are not important fate processes. This is supported by low estimates for the bioconcentration factor (log BCF = 0.43) and soil adsorption coefficient (Koc = 33). Environmental: Isopropylamine has the potential to bind to soil and partition from the water column to sediments and suspended solids. Limited data suggests isopropylamine should biodegrade rapidly in soil and water; however, it may be toxic to micro-organisms at high concn. isopropylamine is expected to exist almost entirely in the vapor phase in ambient air, where vapor phase reactions with photochemically produced hydroxyl radicals may be important (estimated half-life of 10 hrs).</p> <p>For Methanol: Ecotoxicity: Fish toxicity: Lepomis macrochirus LC50: 15400 mg/l/96 h (in soft water); Daphnia toxicity: Daphnia magna EC50: >10000 mg/l/48 h; Maximum permissible toxic concentration: Algal toxicity: Scenedesmus quadricauda IC5: 8000 mg/l/8 d; Bacterial toxicity: Pseudomonas putida EC5: 6600 mg/l/16 h; Protozoa: Entosiphon sulcatum EC5: >10000 mg/l/72 h.</p>			
SECTION 13 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Do not allow isopropylamine or isopropanol to enter a sewer because of the possibility of an explosion.			
SECTION 14 - TRANSPORT INFORMATION			
PROPER SHIPPING NAME: Chemical kit, UN (Contains Methanol, Isopropylamine) 3316			
DOT HAZARD CLASS / Pack Group:	9, PGII	IATA HAZARD CLASS / Pack Group:	9,PGII
REFERENCE:	49CFR	IMDG HAZARD CLASS:	9
UN / NA IDENTIFICATION NUMBER:	UN 3316	RID/ADR Dangerous Goods Code:	UN 3316, 9
LABEL:	Miscellaneous dangerous goods.	UN TDG Class / Pack Group:	UN 3316/ PGII
HAZARD SYMBOLS:		Hazard Identification Number (HIN):	90
<p>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.</p>			

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SECTION 15 - REGULATORY INFORMATION			
TSCA (USA - Toxic Substance Control Act):		Ingredients are listed.	
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health:	Yes	Chronic Health:	Yes
Reactive:	No	Sudden Release of Pressure:	No
313 REPORTABLE INGREDIENTS: This material contains Methanol CAS#67-56-1 which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.			
CERCLA (USA - Comprehensive Response Compensation and Liability Act): CAS# 67-56-1: 5000 lb final RQ; 2270 kg final RQ.			
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:		None listed.	
CCPR (Canadian Controlled Products Regulations):		Listed.	
CIDL (Canadian Ingredient Disclosure List):		Listed.	
CDSL / 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: 2 (overall 2 ampoules).			
RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:	
R11: Highly flammable. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.	 (+Xn)/(+Xi): Harmful/Irritant  (+F): Highly Flammable  (+T): Toxic	S1: Keep out of the reach of children. S7: Keep container tightly closed. S9: Keep container in a well ventilated place. S16: Keep away from sources of ignition - No smoking. S23: Do not inhale gas/fumes/vapor/spray. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29: Do not empty into drains. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53: Avoid exposure - obtain special instructions before use.	
SECTION 16 - OTHER INFORMATION			
Legend: N/A = Not Applicable N/D = Not Determined N/E = Not Established N/R = Not Reported			
HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	3 3 1 B	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
REVISION SUMMARY: Revised 9/26/2008 to GHS/EU protocols, supersedes 04/15/2008 issue. LB			
MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com			
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