



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Test H – Methadone Order No. 6078		DATE: October 13, 2008	
PRODUCT NUMBER(S): 6078			
TRADE NAME: Test H – Methadone Order No. 6078 GENERAL USE: Presumptive Test Kit for Methadone CHEMICAL FAMILY: Cobalt/Thiocyanate/ Acetic Acid PRODUCT DESCRIPTION: Clear Pink Liquid.			
MANUFACTURED FOR: Safariland LLC		DATE PREPARED: October 13, 2008	
		SUPERSEDES: April 15, 2008	
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway		TELEPHONE NUMBER FOR INFORMATION / Customer Service 904-741-5400	
(CITY, STATE AND ZIP CODE) Jacksonville, FL 32218		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER	
COUNTRY USA		 1-800-255-3924 01-813-248-0585 North America Toll Free International	

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Distilled Water, 1st ampoule	>90	7732-18-5	231-791-2	None	None
Cobaltous Acetate Tetrahydrate, 2nd ampoule	1-5	71-48-7 (Anhydrous) 6147-53-1 (Tetrahydrate)	200-755-8 (Anhydrous)	(+Xn)	R22,R40,R42/43
Acetic Acid, 2nd ampoule	10-15	64-19-7	200-580-7	(+Xi)	R36/38
Potassium Thiocyanate, 2nd Ampoule	1-5	333-20-0	206-370-1	(+Xn)	R21/22

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. Splashes in the eyes or on the skin will cause severe skin burns. Inhalation of acid vapors may be injurious to the lungs. Repeated or prolonged exposure to solutions of acid may cause irritation of the skin.

Acetic Acid: Causes severe digestive and respiratory tract burns. Causes severe eye and skin burns. Lachrymator (substance which increases the flow of tears). 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.

Cobaltous Acetate: Warning! Possible cancer hazard. May cause cancer based on animal data. Causes eye irritation. May cause allergic respiratory and skin reaction. May be harmful if swallowed. May cause skin and respiratory tract irritation. May cause lung damage. Hygroscopic (absorbs moisture from the air). Very toxic to aquatic organisms.

Target Organs: Respiratory system, eyes, skin.

Potassium Thiocyanate: Warning! Toxic if ingested. May cause irritation of eyes and skin.

Target Organs: Heart, brain, blood.

POTENTIAL HEALTH EFFECTS

INHALATION:

Irritation of throat. Inhalation of acid vapors may be injurious to the lungs and with repeated inhalation chronic irritation and/or inflammation of nose, throat, and bronchial tubes.

SKIN:

Irritation, burns, or delayed onset contact dermatitis is also possible with chronic repeated exposure to Ampoule 2 chemicals.

EYES:

Irritation of eyes, corneal burns are possible with exposure to Ampoule 2.

INGESTION:

Severe irritation and ulceration of the gastrointestinal tract. Vomiting and diarrhea are also symptoms.

CARCINOGENICITY:

NTP? **No**

IARC MONOGRAPHS? **Yes, CAS # 6147-53-1**

OSHA REGULATED? **No**

CALIFORNIA Prop. 65?

No

ESIS?

Yes, CAS#71-48-7 / 6147-53-1, Cobaltous Acetate, EINECS- 200-755-8 (Anhydrous), Limited evidence of carcinogenic effect.

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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 Acetic Acid. If vomiting occurs spontaneously, keep the head below the waist to avoid aspiration. Call a physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
Solutions are non-flammable. Acetic Acid, 2nd Ampoule is potentially reactive with metals such as aluminum and magnesium with evolution of flammable Hydrogen gas. Cobalt Acetate emits toxic fumes when involved in a fire.

EXTINGUISHING MEDIA:
Choose media to fight surrounding fire.

FIRE FIGHTING PROCEDURES:
Use NIOSH/MSA or European EN-149 approved respirators rated for acid gases Ampoule 2, 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.

HAZARDOUS COMBUSTION PRODUCTS:
Acid contact with most metals corrodes them severely and forms flammable Hydrogen gas. Contact of acid gas or liquid with any alkali or active metal may develop enough heat to cause a fire in adjacent combustible material.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Wear protective equipment; ventilate area; cover an Acetic Acid spill with sodium carbonate. Add water if necessary to form a slurry. Scoop up slurry. Can use ODV part number 910 soda ash.

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.

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	STEL mg/m3
Distilled Water, 1st ampoule	NE	NE	NE	NE	NE	NE	NE	NE
Cobaltous Acetate Tetrahydrate, 2nd Ampoule	NE	NE	NE	NE	NE	NE	NE	NE
Acetic Acid, 2nd Ampoule	10		50 IDLH		10		10	25
Potassium Thiocyanate, 2nd Ampoule	NE		NE		NE		NE	

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
NIOSH/MSA or European EN-149 approved acid gas respirator for a minor Acetic Acid spill clean-up.

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 neutralize and absorb spilled acid.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Clear Pink Liquid.	VAPOR PRESSURE NE
VOC NE Volatility NE	SPECIFIC GRAVITY (WATER = 1) NA
BOILING POINT / BOILING RANGE NE	SOLUBILITY IN WATER NA
FLASH POINT NE	VISCOSITY NA
FLAMMABLE LIMITS LEL: NE UEL: NE	VAPOR DENSITY (AIR = 1) NE
AUTO-IGNITION TEMPERATURE NE	EVAPORATION RATE BUTYL ACETATE = 1) NE

SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE X	CONDITIONS TO AVOID: Excessive heat, contact with incompatible materials.
INCOMPATIBILITY (MATERIALS TO AVOID): Reactive metals, Strong acids, Strong alkalis.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Toxic gases and vapors may be released in a fire. Cobalt fumes are toxic and a possible cancer hazard.	
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)
Distilled Water	7732-18-5	Oral, mouse: > 90ml/kg	NE
	231-791-2		
Cobaltous Acetate Tetrahydrate, 2nd Ampoule	6147-53-1	Oral, rat: LD50 = 708 mg/kg.	NE
	200-755-8		
Acetic Acid, 2nd Ampoule	64-19-7	Oral, rat: LD50 = 3310 mg/kg;	Inhalation, mouse: LC50 = 5620 ppm/1H
	200-580-7		
Potassium Thiocyanate, 2nd Ampoule	75-31-0	Oral, rat LD50 = 854 mg/kg	NE
	200-860-9	Oral, mouse LD50 = 590 mg/kg	

SECTION 12 - ECOLOGICAL INFORMATION

For Acetic Acid: Ecotoxicity: Fish: Fathead Minnow: LC50 = 88 mg/L; 96 Hr; Static bioassay @ 18-22°C Fish: Bluegill/Sunfish: LC50 = 75 mg/L; 96 Hr; Unspecified Fish: Goldfish: LC50 = 423 mg/L; 24 Hr; Unspecified Water flea Daphnia: EC50 = 32-47 mg/L; 24-48 Hr; Unspecified Bacteria: Phytobacterium phosphoreum: EC50 = 8.86-11 mg/L; 5,15,25 min; Microtox test If released to water or soil, Acetic Acid will biodegrade readily. Evaporation from dry surfaces is likely to occur. When spilled on soil, the liquid will spread on the surface and penetrate into the soil at a rate dependent on the soil type and its water content. Acetic Acid shows no potential for biological accumulation or food chain contamination.

Environmental: If released to the atmosphere, it is degraded in the vapor-phase by reaction with photochemically produced hydroxyl radicals (estimated typical half-life of 26.7 days). It occurs in atmospheric particulate matter in acetate form and physical removal from air can occur via wet and dry deposition.

Physical: Natural waters will neutralize dilute solutions to acetate salts.

For Cobaltous Acetate Tetrahydrate: Ecotoxicity: No data available. No information available.

Environmental: Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Physical: No information available.

For Potassium Thiocyanate: Ecotoxicity: No data available. **Environmental:** No information available. **Physical:** No data available.

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.

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SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Chemical kit (contains Cobalt salt, Potassium Thiocyanate, Acetic Acid), UN 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



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.

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
Fire: No	Sudden Release of Pressure: No
313 REPORTABLE INGREDIENTS:	This material contains Cobalt (II) Acetate Tetrahydrate (listed as Cobalt compounds), 0.5%, (CAS# 6147-53-1), 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# 64-19-7: 5000 lb / 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):	Cobaltous Acetate referenced as Anhydrous salt.

WGK Water Quality Index: 2 (overall 2 ampoules).

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R21/22 : Harmful in contact with skin and if swallowed. R32 : Contact with acids liberates very toxic gas. R36/38 : Irritating to eyes and skin. R40 : Limited evidence of carcinogenic effect. R42/43 : May cause sensitization by inhalation and skin contact.	 (+Xn)/(+Xi): Harmful/Irritant	S1/2 : Keep locked up and out of the reach of children. S13 : Keep away from food, drink and animal feeding stuffs. S23 : Do not breathe gas/fumes/vapor/spray. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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:	3	0 = INSIGNIFICANT
	FLAMMABILITY:	1	1 = SLIGHT
	PHYSICAL HAZARD:	1	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	B	3 = HIGH
			4 = EXTREME

REVISION SUMMARY: Revised 9/30/2008 to GHS/EU protocols, supersedes 04/15/2008 issue. JTV.

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