SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Test U

PRODUCT NUMBER(S): 800-6087 (1006165) DATE: April 20, 2012

TRADE NAME: Sodium Nitroferrricyanide Reagent GENERAL USE: Test for Methamphetamine

CHEMICAL FAMILY: Acetaldehyde nitroferricyanide

PRODUCT DESCRIPTION:

Clear colorless liquid 1st ampoule; Clear, colorless liquid, pungent odor, 2nd Ampoule; clear light brown liquid 3rd

ampoule.

MANUFACTURED FOR: DATE PREPARED: April 20, 2012
Safariland LLC SUPERSEDES: August 1, 2011

ADDRESS (NUMBER, STREET, P.O. BOX)

TELEPHONE NUMBER FOR INFORMATION / Customer Service

13386 International Parkway

(CITY, STATE AND ZIP CODE) COUNTRY

Jacksonville, FL 32218 USA

USA ChemTel

800-347-1200
CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER

1-800-255-3924North America Toll Free

International

SECTION 2 - 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 dilute solutions of acid may cause irritation of the skin.

POTENTIAL HEALTH EFFECTS

INHALATION:

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

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 3 chemicals.

EYES:

Chronic irritation of eyes.

INGESTION:

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

CARCINOGENICITY:

NTP? Yes - Acetaldehyde. IARC MONOGRAPHS? Yes - Acetaldehyde. OSHA REGULATED? No CALIFORNIA, Prop.65? Yes CAS#75-07-0 (Acetaldehyde) are known carcinogens listed in the State of California.

ESIS? Yes CAS #75-07-0 EINECS #200-836-8 Acetaldehyde=Limited evidence of carcinogenic effect.

SECTION 3 - HAZARDOUS INGREDIENTS RISK PHRASES % (by Weight) Hazard Symbol Hazardous Components CAS# **EINECS#** (Full Text Section 15) Ampoule 1 Sodium Carbonate Aqueous 497-19-8 207-838-8 **R36** 5-10 Χi Ampoule 2 Acetaldehyde 15-25 75-07-0 200-836-8 +F, Xn, Xi R12. R36/37.R40 Ampoule 3 Sodium Nitroferricyanide 1-5 14402-89-2 238-373-9 (Anhydrous) R23/24/25, R32

Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.

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 victim is able to swallow, give water, then seek immediate medical help. Do not induce vomiting.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Acetaldehyde is flammable, and Sodium Nitroferricyanide will emit toxic gases when heated in a fire.

EXTINGUISHING MEDIA:

Use extinguishing media appropriate for surrounding fire.

FIRE FIGHTING PROCEDURES:

Under fire conditions wearing NIOSH/MSA or European EN-149 approved SCBA's or acid gas=organic vapor respirators is required.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic fumes may be produced by heated product.

HAZARDOUS COMBUSTION PRODUCTS:

Hydrogen Cyanide gas, carbon oxides, sodium oxide fumes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment; ventilate area; Add baking soda (sodium bicarbonate) to absorb material. 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. Avoid breathing vapor and prevent vapor accumulation in enclosed areas.

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
Acetaldehyde, Ampoule 2	25		2000 IDLH		25 Ceiling		200	360
Sodium Carbonate Aqueous, Ampoule 1	NE		NE		NE		NE	
Sodium Nitroferricyanide, Ampoule 3		1(as iron)				1(as iron)		

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Not generally needed as kit is opened and used immediately in the field. For spills, an organic vapor respirator (OSHA/NIOSH or EU Approved) is advisable.

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 absorb any spill.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES					
APPEARANCE AND ODOR	VAPOR PRESSURE				
Clear colorless liquid 1st ampoule; Clear, colorless liquid, pungent odor, 2nd Ampoule; clear light brown liquid 3rd ampoule.	17.5 mm Hg @ 25 °C (77°F) (1st and 3rd Ampoules), ND (2nd Ampoule)				
VOC NE Volatility NE	SPECIFIC GRAVITY (WATER = 1)				
	1.07 (Ampoule 1), 0.96 (Ampoule 2), 1.03 (Ampoule 3)				
BOILING POINT / BOILING RANGE	SOLUBILITY IN WATER				
100 °C (212°F) (1st, 3rd Ampoules), NE (2nd Ampoule)	Complete (1st, 3rd Ampoules), Miscible (2nd Ampoule)				
FLASH POINT	VISCOSITY				
NA	NA				
FLAMMABLE LIMITS	VAPOR DENSITY (AIR = 1)				
LEL: NR UEL: NR	NA				
AUTO-IGNITION TEMPERATURE	EVAPORATION RATE BUTYL ACETATE = 1)				
NR	NE				

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE **X** CONDITIONS TO AVOID:

Excessive heat, light exposure, contact with incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID):

Sodium Nitroferricyanide when strongly acidified by contact with Sulfuric or Nitric Acid and when also heated can produce deadly Hydrogen Cyanide gas.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Hydrogen Cyanide gas, organic vapors, sodium oxide fumes.

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID:

Will not occur. None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION					
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)		
Acetaldehyde, Ampoule 2	75-07-0	Oral, rat: LD50 = 661 mg/kg	Inhalation, rat: LC50 = 13300 ppm/4H.		
	200-836-8	Oral, rat. LD30 = 001 mg/kg			
Sodium Carbonate Aqueous,	497-19-8	Onel melabita I DEO 4000 menulian	Inhalation, rat:		
Ampoule 1	207-838-8	Orai, rabbit. LD50 = 4090 mg/kg	LC50 = 2300 mg/m ³ / 2 hours		
Sodium Nitroferricyanide,	14402-89-2	Oral, rat: LD50 = 99 mg/kg	NE		
Ampoule 3	238-373-9 (Anhydrous)	Oral, rabbit: LD50 = 34 mg/kg			

SECTION 12 - ECOLOGICAL INFORMATION

Components of this product are environmentally hazardous; do not dispose in sewers or bodies of water.

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.

SECTION 14 - TRANSPORT INFORMATION

GROUND SHIPMENT WITHIN USA (DOT):

PROPER SHIPPING NAME: None - Exempted Qty.

CLASS/ PACK GROUP/ LABELING: Class 3 with Excepted Qty. marking on package. No class 3 label required.

NOTES: When shipped under 49CFR173.4a, This product is exempt from other labeling and waybill requirements.

GROUND SHIPMENTS TO AND WITHIN CANADA (TDG):

PROPER SHIPPING NAME: None - Limited Quantity (within Canada), See above for US to Canada

CLASS/ PACK GROUP/ LABELING: Phrase "Ltd. Qty." on package. No additional requirements.

NOTES: TDG only used for shipment within Canada, shipments from the US can follow DOT regulations. See TDG Sections 1.17

and 9.

AIR SHIPMENTS (ICAO/IATA):

PROPER SHIPPING NAME:

CLASS/ PACK GROUP/ LABELING:

NOTES:

None - (Classified under UN1993 Flammable Liquid n.o.s. PGII - Excepted Qty. E2)

Class 3 with Excepted Qty. marking on package. No class 3 label required.

This product is exempt from other labeling and waybill requirements.

OCEAN SHIPMENTS (IMDG):

PROPER SHIPPING NAME: None

CLASS/ PACK GROUP/ LABELING: Class 3 with Excepted Qty. marking on package. No class 3 label required.

NOTES: Shipping Paper required with statement "Dangerous Goods in Excepted Quantities" and number of packages.

ALL SHIPMENTS EXCEEDING EXCEPTED QUANTITY / ALTERNATIVE SHIPPING INFORMATION:

PROPER SHIPPING NAME: UN 3316, Chemical Kit

CLASS/ PACK GROUP/ LABELING: Class 9, Pack Group III. Miscellaneous Label

NOTES: Full documentation required.

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, TDG & UN information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping. Information above does not account for overpacks or outer packings with multiple hazardous materials; consult shipper when multiple materials are shipped. Consult regulations for maximum outer packaging and overpack requirements



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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 Fire: Yes Sudden Release of Pressure: No

Reactive: No

313 REPORTABLE INGREDIENTS: This material contains Acetaldehyde (CAS# 75-07-0, > 99.5%),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# 75-07-0: 1000 lb final RQ; 454 kg

final RQ.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: WARNING! This product contains a chemical known to the State of California to cause cancer. Acetaldehyde

State Right to Know: Acetaldehyde: MA,NJ,PA,RI; Sodium Nitroferricyanide: NJ,PA

CCPR (Canadian Controlled Products Regulations): Not Listed.

CIDL (Canadian Ingredient Disclosure List): Not Listed.

CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Not Listed on CDSL.

EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced.

WGK Water Quality Index:	3	
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. R32: Contact with acids liberates very toxic gas. R37: Irritating to respiratory system. R38: Irritating to skin. R40: Limited evidence of carcinogenic effect. R48/20/22: Harmful: danger of serious damage to health by	Xn/Xi: Harmful /Irritant T: Toxic F: Highly Flammable	S1/2: Keep locked up and out of the reach of children. S9: Keep container in a well ventilated place. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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). S50A: Do not mix with acids.

SECTION 16 - OTHER INFORMATION

Legend: N/A = Not Applic	able N/D = Not Determined N/E = Not Est	ablished	ed N/R = Not Reported		
HMIS HAZARD RATINGS	HEALTH:		3	0 = INSIGNIFICANT	
	FLAMMABILITY:		0	1 = SLIGHT	
	PHYSICAL HAZARD:		1	2 = MODERATE	
	PERSONAL PROTECTIVE EQUIPMENT:		В	3 = HIGH	
				4 = EXTREME	
REVISION SUMMARY:	Revised 4/20/2012.			_	

MSDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

prolonged exposure through inhalation and if swallowed.

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com



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.