



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> Test U – Methamphetamine and Ecstasy Order # 6087		<b>DATE:</b> September 25, 2008	
<b>PRODUCT NUMBER(S):</b> 6087			
<b>TRADE NAME:</b> Sodium Nitroferricyanide Reagent <b>GENERAL USE:</b> Test for Methamphetamine <b>CHEMICAL FAMILY:</b> Acetaldehyde nitroferricyanide <b>PRODUCT DESCRIPTION:</b> Clear colorless liquid 1st ampoule; Clear, colorless liquid, pungent odor, 2nd Ampoule; clear light brown liquid 3rd ampoule.			
<b>MANUFACTURED FOR:</b> <b>Safariland LLC</b>		<b>DATE PREPARED:</b> September 12, 2008	
		<b>SUPERSEDES:</b> February 1, 2002	
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> 13386 International Parkway		<b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b> 904-741-5400	
<b>(CITY, STATE AND ZIP CODE)</b> Jacksonville, FL 32218		<b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER</b>	
<b>COUNTRY</b> 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)
<b>Ampoule 1</b>					
<b>Sodium Carbonate Aqueous</b>	5-10	497-19-8	207-838-8	(+Xi)	R36
<b>Ampoule 2</b>					
<b>Acetaldehyde</b>	15-25	75-07-0	200-836-8	(+F),(+Xn)	R12, R36/37,R40
<b>Ampoule 3</b>					
<b>Sodium Nitroferricyanide</b>	1-5	14402-89-2	238-373-9 (Anhydrous)	(+T)	R23/24/25, R32

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 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 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. 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:**  
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

HAZARDOUS COMPONENTS	NIOSH			ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm
<b>Acetaldehyde, Ampoule 2</b>	<b>25</b>		<b>2000 IDLH</b>		<b>25 Ceiling</b>		<b>200</b>
<b>Sodium Carbonate Aqueous, Ampoule 1</b>	<b>NE</b>		<b>NE</b>		<b>NE</b>		<b>NE</b>
<b>Sodium Nitroferricyanide, Ampoule 3</b>		<b>1(as iron)</b>				<b>1(as iron)</b>	

### 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

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

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## SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	<b>X</b>	CONDITIONS TO AVOID: Excessive heat, light exposure, contact with incompatible materials.
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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: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.
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## 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		
Sodium Carbonate Aqueous, Ampoule 1	497-19-8	Oral, rabbit: LD50 = 4090 mg/kg	Inhalation, rat: LC50 = 2300 mg/m <sup>3</sup> / 2 hours
	207-838-8		
Sodium Nitroferricyanide, Ampoule 3	14402-89-2	Oral, rat: LD50 = 99 mg/kg	NE
	238-373-9 (Anhydrous)	Oral, rabbit: LD50 = 34 mg/kg	


## SECTION 12 - ECOLOGICAL INFORMATION

The ecological fate of the combined ingredients in this product is not completely understood, but Acetaldehyde has been implicated as potentially causing harm to the environment. Sodium Nitroferricyanide is considered harmful to aquatic organisms. Do not release product into sewers or bodies of water. Both Acetaldehyde and Sodium Nitroferricyanide are considered RCRA hazardous waste.

## 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

<b>PROPER SHIPPING NAME:</b> Chemical Kit (Contains Acetaldehyde, Sodium Nitroferricyanide), UN 3316	
DOT HAZARD CLASS / Pack Group: <b>9, PGII</b> REFERENCE: 49CFR UN / NA IDENTIFICATION NUMBER: <b>UN 3316</b> LABEL: <b>Miscellaneous (9)</b> HAZARD SYMBOLS:	 IATA HAZARD CLASS / Pack Group: <b>9, PGII</b> IMDG HAZARD CLASS: <b>9</b> RID/ADR Dangerous Goods Code: <b>UN 3316, 9</b> UN TDG Class / Pack Group: <b>UN 3316/ PGII</b> Hazard Identification Number (HIN): <b>90</b>

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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## 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: **Yes - Acetaldehyde**




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:
<p><b>R11: Highly Flammable.</b>  <b>R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.</b>  <b>R23: Toxic by inhalation.</b>  <b>R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.</b>  <b>R32: Contact with acids liberates very toxic gas.</b>  <b>R35: Causes severe burns.</b>  <b>R37: Irritating to respiratory system.</b>  <b>R38: Irritating to skin.</b>  <b>R40: Limited evidence of carcinogenic effect.</b>  <b>R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.</b></p>	 (+X): Harmful /Irritant   (+T): Toxic   (+F): Highly Flammable	<p><b>S1/2: Keep locked up and out of the reach of children.</b>  <b>S9: Keep container in a well ventilated place.</b>  <b>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</b>  <b>S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.</b>  <b>S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</b>  <b>S50A: Do not mix with acids.</b></p>

## 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:	<b>0</b>	1 = SLIGHT
	PHYSICAL HAZARD:	<b>1</b>	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	<b>B</b>	3 = HIGH
			4 = EXTREME

**REVISION SUMMARY:**  
 Revised 9/25/2008 to GHS/EU protocols, supersedes 04/15/08 issue. LB

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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.