



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> Test G		<b>DATE:</b> April 20, 2012	
<b>PRODUCT NUMBER(S):</b> 800-6076 (1006155)			
TRADE NAME: Test G- Cocaine GENERAL USE: Test Kit for Cocaine Salts and Base. CHEMICAL FAMILY: Cobalt(II)Salt, Acids,Chloroform PRODUCT DESCRIPTION: 1st Ampoule – pink liquid; 2nd ampoule – clear and colorless; 3rd ampoule – clear and colorless.			
<b>MANUFACTURED FOR:</b> <b>Safariland LLC</b>		<b>DATE PREPARED:</b> April 20, 2012	
ADDRESS (NUMBER, STREET, P.O. BOX) <b>13386 International Parkway</b>		<b>SUPERSEDES:</b> August 1, 2011	
(CITY, STATE AND ZIP CODE) <b>Jacksonville, FL 32218</b>		<b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b> <b>800-347-1200</b>	
<b>COUNTRY</b> <b>USA</b>		<b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER</b>	
			<b>1-800-255-3924</b> North America Toll Free
		<b>01-813-248-0585</b> 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. Repeated or prolonged exposure to mists or vapors of Hydrochloric Acid may cause erosion of teeth, chronic irritation of the eyes, or chronic inflammation of the nose, throat, and bronchial tubes. 2 ppm (9.78 mg/m3) 60 minute ceiling NIOSH (CHCl3) Chloroform which is listed as a carcinogen.

**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, corneal burns are possible with exposure to Hydrochloric Acid (Ampoule 2).

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

**CARCINOGENICITY:**  
 NTP? **Yes-Chloroform** IARC MONOGRAPHS? Yes,67-66-3 OSHA REGULATED? **No**  
 CALIFORNIA, Prop.65? **Yes, CAS#67-66-3 (Chloroform) is a known carcinogen listed in the State of California.**  
 ESIS? **Yes, CAS#67-66-3 EINECS #200-663-8 Chloroform=Limited evidence of carcinogenic effect.**

## SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
<b>Cobalt (II) Thiocyanate, 1st Ampoule</b>	<b>&lt;1%</b>	<b>3017-60-5</b>	<b>221-156-8</b>	<b>Xn</b>	<b>R20/21/22, R32</b>
<b>Glycerol, 1st Ampoule</b>	<b>40-60%</b>	<b>56-81-5</b>	<b>200-289-5</b>	<b>None</b>	<b>None</b>
<b>Boric Acid, 1st Ampoule*</b>	<b>&lt;1%</b>	<b>10043-35-3</b>	<b>233-139-2</b>	<b>None</b>	<b>None</b>
<b>Tartaric Acid, 1st Ampoule</b>	<b>&lt;1%</b>	<b>87-69-4</b>	<b>201-766-0</b>	<b>None</b>	<b>None</b>
<b>Hydrochloric Acid, 2nd Ampoule</b>	<b>&gt;90%</b>	<b>7647-01-0</b>	<b>231-595-7</b>	<b>T, C+, Xi</b>	<b>R23, R35, R37</b>
<b>Chloroform, 3rd Ampoule</b>	<b>&gt;90%</b>	<b>67-66-3</b>	<b>200-663-8</b>	<b>Xn</b>	<b>R22,R38,R40, R48/20/22</b>

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

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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 Hydrochloric 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:**  
Hydrochloric Acid, 2nd Ampoule is highly corrosive to most metals with evolution of flammable hydrogen gas. Chloroform emits toxic and irritating gases when involved in a fire.

**EXTINGUISHING MEDIA:**  
Use extinguishing media appropriate for surrounding fire.

**FIRE FIGHTING PROCEDURES:**  
None applicable, not flammable.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
Under fire conditions wearing NIOSH/MSA or European EN-149 approved SCBA's or acid gas=organic vapor respirators is required.

**HAZARDOUS COMBUSTION PRODUCTS:**  
Hydrogen Chloride gas, Hydrogen Cyanide gas, phosgene, other organo-halogens, sulfur oxides, and organic vapors.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**  
Wear protective equipment; ventilate area; cover a Hydrochloric Acid spill with sodium carbonate. Add water if necessary to form a slurry. Scoop up slurry. Can use ODV part number 910 soda ash. For Chloroform, eliminate sources of ignition, absorb with vermiculite.

## 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 Chloroform 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	STEL mg/m3
<b>Cobalt (II) Thiocyanate, 1st Ampoule</b>	<b>NE</b>			<b>NE</b>		<b>0.02</b>		<b>0.02</b>
<b>Glycerol, 1st Ampoule</b>	<b>NE</b>			<b>NE</b>		<b>10</b>		<b>15</b>
<b>Boric Acid, 1st Ampoule*</b>	<b>NE</b>			<b>NE</b>		<b>2</b>		<b>NE</b>
<b>Tartaric Acid, 1st Ampoule</b>	<b>NE</b>			<b>NE</b>		<b>NE</b>		<b>NE</b>
<b>Hydrochloric Acid, 2nd Ampoule</b>	<b>2</b>			<b>50 IDLH</b>		<b>2</b>	<b>5</b>	<b>7</b>
<b>Chloroform, 3rd Ampoule</b>	<b>10</b>			<b>500 IDLH</b>	<b>10</b>		<b>50</b>	<b>240</b>

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**  
NIOSH/MSA or European EN-149 approved acid gas respirator for a minor Hydrochloric Acid spill clean-up or a NIOSH/MSA or European EN-149 approved organic vapor respirator for minor Chloroform 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 neutralize and absorb spilled acid, and to clean up toxic Chloroform.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR <b>1st Ampoule – pink liquid; 2nd ampoule – clear and colorless; 3rd ampoule – clear and colorless.</b>	VAPOR PRESSURE <b>100mm Hg at 10.4°C Chloroform</b>
VOC <b>NE</b> Volatility <b>NE</b>	SPECIFIC GRAVITY (WATER = 1) <b>1.49 for Chloroform</b>
BOILING POINT / BOILING RANGE <b>61°C for Chloroform</b>	SOLUBILITY IN WATER <b>62% for Hydrochloric acid, Slight for Chloroform.</b>
FLASH POINT <b>NR</b>	VISCOSITY <b>NA</b>
FLAMMABLE LIMITS LEL: <b>NR</b> UEL: <b>NR</b>	VAPOR DENSITY (AIR = 1) <b>4.12 for Chloroform</b>
AUTOIGNITION TEMPERATURE <b>NR</b>	EVAPORATION RATE (BUTYL ACETATE = 1) <b>NE</b>

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY                                      STABLE <b>X</b>	CONDITIONS TO AVOID: <b>Excessive heat, light exposure, contact with incompatible materials.</b>
INCOMPATIBILITY (MATERIALS TO AVOID): <b>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. Chloroform when heated in air under fire conditions may decompose to deadly phosgene gas. Cobalt (II) Thiocyanate when strongly acidified by contact with Sulfuric Acid and when also heated can produce deadly Hydrogen Cyanide gas.</b>	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: <b>Hydrogen Chloride gas, Hydrogen Cyanide gas, phosgene, other organo-halogens, sulfur oxides, and organic vapors.</b>	
HAZARDOUS POLYMERIZATION: <b>Will not occur.</b>	CONDITIONS TO AVOID: <b>None related to polymerization.</b>

## SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
<b>Cobalt (II) Thiocyanate, 1st Ampoule</b>	<b>3017-60-5</b>	<b>NE</b>	<b>NE</b>
	<b>221-156-8</b>		
<b>Glycerol, 1st Ampoule</b>	<b>56-81-5</b>	Oral, rat: LD50 = 12600 mg/kg	Inhalation, rat: LC50 = >570 mg/m3/1H.
	<b>200-289-5</b>		
<b>Boric Acid, 1st Ampoule*</b>	<b>10043-35-3</b>	Oral, mouse: LD50 = 3450 mg/kg	<b>NE</b>
	<b>233-139-2</b>	Oral, rat: LD50 = 2500 mg/kg	
<b>Tartaric Acid, 1st Ampoule</b>	<b>87-69-4</b>	Rat LDLo Oral; dose: 7500 mg/kg.	<b>NE</b>
	<b>201-766-0</b>		
<b>Hydrochloric Acid, 2nd Ampoule</b>	<b>7647-01-0</b>	Oral, rabbit: LD50 = 900 mg/kg.	Inhalation, rat: LC50 = 3124 ppm/1H.
	<b>231-595-7</b>		
<b>Chloroform, 3rd Ampoule</b>	<b>67-66-3</b>	Oral, rat: LD50 = 695 mg/kg;	Inhalation, rat: LC50 = 6000 mg/m3/6H.
	<b>200-663-8</b>	Oral, mouse: LD50 = 36 mg/kg	

## SECTION 12 - ECOLOGICAL INFORMATION

Harmful to environment in large quantities. Chloroform may bioaccumulate in soil, water, and organisms.

## 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

### GROUND SHIPMENT WITHIN USA (DOT):

PROPER SHIPPING NAME: **None - Exempted Qty.**

CLASS/ PACK GROUP/ LABELING: **Class8 (6.1) with Exempted Qty. marking on package. No class 8 or 6.1 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: **None - (Classified under UN 1888 Chloroform, UN 1789 Hydrochloric Acid - Overall Exempted Qty. E2)**

CLASS/ PACK GROUP/ LABELING: **Class8 (6.1) with Exempted Qty. marking on package. No class 8 or 6.1 label required.**

NOTES: **This product is exempt from other labeling and waybill requirements.**

### OCEAN SHIPMENTS (IMDG):

PROPER SHIPPING NAME: **None**

CLASS/ PACK GROUP/ LABELING: **Class8 (6.1) with Exempted Qty. marking on package. No class 8 or 6.1 label required.**

NOTES: **Shipping Paper required with statement "Dangerous Goods in Exempted 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**

## SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): **Ingredients are listed.**

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health:	<b>Yes</b>	Chronic Health:	<b>Yes</b>
Fire:	<b>No</b>	Sudden Release of Pressure:	<b>No</b>
Reactive:	<b>No</b>		

**313 REPORTABLE INGREDIENTS:** **This material contains Chloroform (CAS# 67-66-3, 99+%) and Cobalt II Thiocyanate (CAS#,3017-60-5 1%) which are 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# 67-66-3: 10 lb final RQ; 4.54 kg final RQ.**

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **This product contains chemicals known to the State of California to cause cancer: Chloroform.**

State Right to Know: **Hydrochloric Acid: MA,NJ,PA; Chloroform: CA, ILL, MA,MN, NJ, PA, RI; (+)(-) Tartaric Acid: NJ,PA; Boric Acid: NJ,PA. Cobalt II Thiocyanate: NJ, PA**

CCPR (Canadian Controlled Products Regulations): **Class D1B, D2A, D2B, E.**

CIDL (Canadian Ingredient Disclosure List): **Not listed.**

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




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## SECTION 15 - REGULATORY INFORMATION (Continued)

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

WGK Water Quality Index: **2 (overall 3 ampoules).**

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
<p>R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.</p> <p>R23: Toxic by inhalation.</p> <p>R32: Contact with acids liberates very toxic gas.</p> <p>R35: Causes severe burns.</p> <p>R37: Irritating to respiratory system.</p> <p>R38: Irritating to skin.</p> <p>R40: Limited evidence of carcinogenic effect.</p> <p>R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.</p>	 <b>Xn): Harmful</b>   <b>T: Toxic</b>   <b>C+: Corrosive</b>	<p><b>For Hydrochloric Acid Ampoule #2:</b></p> <p>S1/2: Keep locked up and out of the reach of children.</p> <p>S9: Keep container in a well ventilated place.</p> <p>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.</p> <p>S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p><b>For Chloroform Ampoule #3:</b></p> <p>S1/2: Keep locked up and out of the reach of children.</p> <p>S36/37: Wear suitable protective clothing and gloves.</p>

## SECTION 16 - OTHER INFORMATION

**Legend:** N/A = Not Applicable, N/E = Not Established, N/D = Not Determined, N/R = Not Reported

<b>HMIS HAZARD RATINGS</b>	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	<b>3</b>  <b>0</b>  <b>0</b>  <b>H</b>	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
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**REVISION SUMMARY:**  
revised 4/6/2012. 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.