



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> Test J		<b>DATE:</b> April 20, 2012	
<b>PRODUCT NUMBER(S):</b> 800-6079 (1006157)		<b>DATE:</b> April 20, 2012	
TRADE NAME: Test J GENERAL USE: Phencyclidine Test CHEMICAL FAMILY: Cobalt(II)Salt, Acid Combination PRODUCT DESCRIPTION: 1st Ampoule – pink liquid; 2nd Ampoule – clear and colorless.			
<b>MANUFACTURED FOR:</b> <b>Safariland LLC</b>		<b>DATE PREPARED:</b> April 20, 2012	
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> <b>13386 International Parkway</b>		<b>SUPERSEDES:</b> August 1, 2011	
<b>(CITY, STATE AND ZIP CODE)</b> <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> <b>01-813-248-0585</b> North 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 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 Phosphoric Acid may cause erosion of teeth, chronic irritation of the eyes, or chronic inflammation of the nose, throat, and bronchial tubes.

**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 2 chemicals.

**EYES:**  
 Chronic irritation of eyes, corneal burns are possible with exposure to Phosphoric Acid (Ampoule 2).

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

**CARCINOGENICITY:**

NTP? <b>No</b>	IARC MONOGRAPHS? <b>No</b>	OSHA REGULATED? <b>No</b>
CALIFORNIA, Prop.65? <b>No</b>		

## SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
<b>Cobalt (II) Thiocyanate, 2nd Ampoule</b>	<b>1-2</b>	<b>3017-60-5</b>	<b>221-156-8</b>	<b>Xn</b>	<b>R20/21/22, R32</b>
<b>Glycerol, 2nd Ampoule</b>	<b>50-60</b>	<b>56-81-5</b>	<b>200-289-5</b>	<b>None</b>	<b>None</b>
<b>Water, 1st and 2nd Ampoules</b>	<b>100 / 40-50</b>	<b>7732-18-5</b>	<b>231-791-2</b>	<b>None</b>	<b>None</b>
<b>Phosphoric Acid, 3rd Ampoule</b>	<b>&gt;90%</b>	<b>7664-38-2</b>	<b>231-633-2</b>	<b>C</b>	<b>R34</b>

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 swallowed, give plenty of water to dilute substances, do not induce vomiting; if conscious, give large quantities of water immediately to dilute the Phosphoric Acid. 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:**  
 Phosphoric Acid, 2nd Ampoule is corrosive to many metals with evolution of flammable Hydrogen gas, and emits toxic and irritating gases when involved in a fire. Cobalt Thiocyanate may emit toxic cyanide and cobalt fumes 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. Fumes emitted from heated product are toxic and corrosive.

**HAZARDOUS COMBUSTION PRODUCTS:**  
 Hydrogen Cyanide gas, phosphorous compounds, 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 Phosphoric 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. 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	STEL mg/m3
<b>Cobalt (II) Thiocyanate, 2nd Ampoule</b>	NE			NE		0.02		0.02
<b>Glycerol, 2nd Ampoule</b>	NE			NE		10		15
<b>Water, 1st and 2nd Ampoules</b>	NE			NE		2		NE
<b>Phosphoric Acid, 3rd Ampoule</b>		1		3		1		1

### PERSONAL PROTECTION

**RESPIRATORY PROTECTION:**  
 NIOSH/MSA or European EN-149 approved acid gas respirator for a minor Phosphoric 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.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR</b> 1st Ampoule – pink liquid; 2nd Ampoule – clear and colorless.	<b>VAPOR PRESSURE</b> 0.28 mm Hg at 20°C (68°F)
<b>VOC</b> NE      Volatility      NE	<b>SPECIFIC GRAVITY (WATER = 1)</b> 1 - 1st Ampoule. 1.69 - 2nd Ampoule.
<b>BOILING POINT / BOILING RANGE</b> NE	<b>SOLUBILITY IN WATER</b> Soluble
<b>FLASH POINT</b> NE	<b>VISCOSITY</b> NA
<b>FLAMMABLE LIMITS</b> LEL: NE                      UEL: NR	<b>VAPOR DENSITY (AIR = 1)</b> NE
<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.
INCOMPATIBILITY (MATERIALS TO AVOID): <b>Avoid reactive metals and strong oxidizers.</b>			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: <b>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, 2nd Ampoule</b>	<b>3017-60-5 221-156-8</b>	<b>NE</b>	<b>NE</b>
<b>Glycerol, 2nd Ampoule</b>	<b>56-81-5 200-289-5</b>	<b>Oral, rat: LD50 = 12600 mg/kg.</b>	<b>Inhalation, rat: LC50 = &gt;570 mg/m3/1H.</b>
<b>Water, 1st and 2nd Ampoules</b>	<b>7732-18-5 231-791-2</b>	<b>Oral, rat: LD50 &gt; 90 ml/kg.</b>	<b>NE</b>
<b>Phosphoric Acid, 3rd Ampoule</b>	<b>7664-38-2 231-633-2</b>	<b>Oral, rat: LD50 = 1250 mg/kg.</b>	<b>Inhalation, rat: LC50 = 25.5 mg/m<sup>3</sup></b>
SECTION 12 - ECOLOGICAL INFORMATION			
Harmful to environment in large quantities. Cobalt 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.			
SECTION 14 - TRANSPORT INFORMATION			
<b>GROUND SHIPMENT WITHIN USA (DOT):</b>			
PROPER SHIPPING NAME:		None - Exempted Qty.	
CLASS/ PACK GROUP/ LABELING:		Class 8 with Excepted Qty. marking on package. No class 8 label required.	
NOTES: <b>When shipped under 49CFR173.4a, This product is exempt from other labeling and waybill requirements.</b>			
<b>GROUND SHIPMENTS TO AND WITHIN CANADA (TDG):</b>			
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.	
TDG only used for shipment within Canada, shipments from the US can follow DOT regulations. See TDG Sections 1.17 and 9.			
<b>AIR SHIPMENTS (ICAO/IATA):</b>			
PROPER SHIPPING NAME:		None - (Classified under UN1805 Phosphoric Acid - Excepted Qty. E1)	
CLASS/ PACK GROUP/ LABELING:		Class 8 with Excepted Qty. marking on package. No class 8 label required.	
NOTES: <b>This product is exempt from other labeling and waybill requirements.</b>			
<b>OCEAN SHIPMENTS (IMDG):</b>			
PROPER SHIPPING NAME:		None	
CLASS/ PACK GROUP/ LABELING:		Class 8 with Excepted Qty. marking on package. No class 8 label required.	
NOTES: <b>Shipping Paper required with statement "Dangerous Goods in Excepted Quantities" and number of packages.</b>			
<b>ALL SHIPMENTS EXCEEDING EXCEPTED QUANTITY / ALTERNATIVE SHIPPING INFORMATION:</b>			
PROPER SHIPPING NAME:		UN 3316, Chemical Kit	
CLASS/ PACK GROUP/ LABELING:		Class 9, Pack Group III. Miscellaneous Label	
NOTES:		Full documentation required.	
			
<p>Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, TDG &amp; UN information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.</p> <p><b>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</b></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:	<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 **Cobalt II Thiocyanate (CAS#,3017-60-5 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): **No**

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **No**



State Right to Know: **Cobalt II Thiocyanate: NJ,PA ; Phosphoric Acid: MA,NJ,PA.**

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: **2**

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>R34: Causes burns.</p> <p>R37: Irritating to respiratory system.</p> <p>R38: Irritating to skin.</p>	 <b>Xn: Harmful</b>   <b>C: Corrosive</b>	<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>

## SECTION 16 - OTHER INFORMATION

**Legend:**

NA = Not Applicable	ND = Not Determined	NE = Not Established	NR = Not Reported
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HMIS HAZARD RATINGS	HEALTH:	3	0 = INSIGNIFICANT
	FLAMMABILITY:	0	1 = SLIGHT
	PHYSICAL HAZARD:	2	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	H	3 = HIGH
			4 = EXTREME

**REVISION SUMMARY:**  
Revised 4/20/2012.

**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



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.