MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **PCP/Methaqualone Reagent**

PRODUCT NUMBER(S): **914 (1006331), 7614 (1006039)** **DATE:** **August 1, 2011**

TRADE NAME: PCP/Methaqualone Reagent
GENERAL USE: Phencyclidine/Methaqualone Test
CHEMICAL FAMILY: Cobalt(II)Salt, Acid Combination
PRODUCT DESCRIPTION:
1st Ampoule – pink liquid; 2nd ampoule – clear and colorless.

MANUFACTURED FOR:
Safariland LLC

ADDRESS (NUMBER, STREET, P.O. BOX)
13386 International Parkway

(CITY, STATE AND ZIP CODE) COUNTRY
Jacksonville, FL 32218 **USA**

DATE PREPARED: **August 1, 2011**
SUPERSEDES: **September 11, 2008**

TELEPHONE NUMBER FOR INFORMATION / Customer Service
800-347-1200

CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER
ChemTel INC.
1-800-255-3924 North America Toll Free
01-813-248-0585 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? **No** IARC MONOGRAPHS? **Yes Cobalt II Thiocyanate Group 2 B** E.U. **- No**
CALIFORNIA, Prop.65? **No**

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Cobalt (II) Thiocyanate, 1st Ampoule	**1-2%**	**3017-60-5**	**221-156-8**	**Xn**	**R20/21/22, R32**
Phosphoric Acid, 2nd Ampoule	**>90%**	**7664-38-2**	**231-791-2**	**C**	**R34**

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

	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
Cobalt (II) Thiocyanate, 1st Ampoule.	**NE**			**NE**		**0.02**		**0.02**
Phosphoric Acid, 2nd Ampoule		**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 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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR 1st Ampoule – pink liquid; 2nd ampoule – clear and colorless.	VAPOR PRESSURE 0.28 mm Hg at 20°C (68°F)
VOC NE Volatility NE	SPECIFIC GRAVITY (WATER = 1) 1 - 1st ampoule. 1.69 - 2nd ampoule
BOILING POINT / BOILING RANGE NE	SOLUBILITY IN WATER Soluble
FLASH POINT NE	VISCOSITY NA
FLAMMABLE LIMITS LEL: NE UEL: NR	VAPOR DENSITY (AIR = 1) NE
AUTO-IGNITION TEMPERATURE NR	EVAPORATION RATE (BUTYL ACETATE = 1) 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):

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. Cobalt (II) Thiocyanate when strongly acidified by contact with Sulfuric Acid and when also heated can produce deadly Hydrogen Cyanide gas.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Hydrogen chloride gas, hydrogen cyanide gas, phosgene, other organo-halogens, sulfur oxides, and organic vapors.

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)
Cobalt (II) Thiocyanate, 1st Ampoule.	**3017-60-5** **221-156-8**	**NE**	**NE**
Phosphoric Acid, 2nd Ampoule	**7664-38-2** **231-791-2**	**Oral, rat: LD50 = 1250 mg/kg.**	**Inhalation, rat: LC50 = 25.5 mg/m^3**

SECTION 12 - ECOLOGICAL INFORMATION

For Cobalt (II) Thiocyante: No specific information available, however it is known that Cobalt salts like most heavy metals present an environmental risk and are persistent water pollutants. Avoid discharge of the contents of Ampoule 1 into drains or other water courses, disposal should be as collected waste for disposal at a permitted hazardous waste facility in compliance with all Local, State and Federal regulations.

For Phosphoric Acid: Ecotoxicity: Fish: Mosquito Fish: LC50 = 138 mg/L; 96 Hr; Unspecified No data available

Environmental: Upon transport through the soil, phosphoric acid will dissolve some of the soil materials (especially those with carbonate bases) and the acid will neutralize to some degree. Phosphate residues may be expected to remain.

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

PROPER SHIPPING NAME: **Not Regulated* (USA Ground), Chemical Kit UN 3316 (Intl./Air/Sea)**

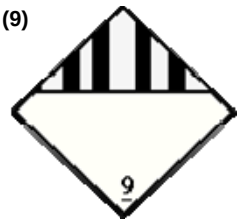
DOT HAZARD CLASS / Pack Group: **Not Regulated**

REFERENCE:

UN / NA IDENTIFICATION NUMBER: **2922**

LABEL: **Miscellaneous Materials (9)**

HAZARD SYMBOLS:



IMDG HAZARD CLASS: **9**

RID/ADR Dangerous Goods Code: **9**

TDG Dangerous Goods Code: **9**

Hazard Identification Number (HIN): **90**

IATA HAZARD CLASS / Pack Group: **9 / II**

*** - Excepted Quantity under 49CFR173.4(b) for ground and rail shipments in the USA only.**

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:	**No**	Sudden Release of Pressure:	**No**
Reactive:	**No**		

313 REPORTABLE INGREDIENTS: **This material contains Chloroform (CAS# 67-66-3, 99+%) and Cobalt II Thiocyanate**

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **No**

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

Stae 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:
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. **R32: Contact with acids liberates very toxic gas.** **R34: Causes burns.** **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 prolonged exposure through inhalation and if swallowed.**	 **Xn: Harmful**  **C: Corrosive**	**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).**

SECTION 16 - OTHER INFORMATION

Legend

NA = Not Applicable ND = Not Determined NE = Not Established NR = Not Reported

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 8/1/2011 to EU protocols, supersedes 09/11/2008 issue. LB/JTV

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