MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **KN Reagent**
PRODUCT NUMBER(S): **909 (1006325), 7609 (1006036)** **DATE:** **May 1, 2012**

TRADE NAME: KN Reagent
GENERAL USE: Marijuana Testing
CHEMICAL FAMILY: Dye
PRODUCT DESCRIPTION:
Yellow to greenish particles in clear liquid 1st ampoule (Trichloroethylene + fast Blue B), colorless liquid NaOH 2nd ampoule.

MANUFACTURED FOR:
Safariland LLC

DATE PREPARED: **May 1, 2012**
SUPERSEDES: **August 1, 2011**

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

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

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

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
Irritating liquid. Harmful if inhaled, swallowed, or if in contact with skin.
Cancer Information: For hazardous communication purposes, under OSHA Standard 29 CFR Part 1910.1200, trichloroethylene is listed as a potential carcinogens by IARC and NTP. Trichloroethylene, when used in this test and this quantity, according to the manufacturer's directions, is not believed to pose a measurable carcinogenic risk to man when handled as recommended.

POTENTIAL HEALTH EFFECTS

INHALATION:
Inhalation of vapors may cause respiratory irritation, coughing, wheezing, edema and nausea. Anesthetic effects may occur.

SKIN:
Product is irritating and can cause rash or itching. Product may cause chemical burns. Repeat exposures are much more likely to lead to irritation, defatting of tissue, and skin damage.

EYES:
Liquid or vapor may cause severe irritation. Use safety glasses; use of a face shield is advisable. Product can cause painful conjunctivitis, and may cause irreversible damage.

INGESTION:
Product is toxic through ingestion, and may cause nausea, diarrhea, vomiting, and generalized gastro-intestinal distress. Corrosive product may cause serious burns of the mouth, throat, and stomach.

CARCINOGENICITY:
NTP? Yes - Trichloroethylene IARC MONOGRAPHS? Yes - Trichloroethylene OSHA REGULATED? Yes
CALIFORNIA, Prop.65? Yes - Trichloroethylene

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
1st Ampoule	**-------**	**---------**	**----------**	**--------**	**----------**
Trichloroethylene	**>99**	**79-01-6**	**201-167-4**	**T+**	**R45, R36/38, R52/53, R67**
Fast Blue B Salt	**<1**	**14263-94-6**	**238-153-2**	**T+**	**R45**
2nd Ampoule	**-------**	**---------**	**----------**	**--------**	**----------**
Sodium Hydroxide solution	**5-10**	**1310-73-2**	**215-185-5**	**C+**	**R35**

Notes: **WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.** Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.

SECTION 4 - FIRST AID MEASURES

INHALATION:
Place victim in well-ventilated area. If victim is not breathing, perform artificial respiration.. Seek immediate medical attention.

EYES:
Material can cause severe eye irritation .Flush eyes with a large quantity of water for a minimum of 15 minutes, then seek immediate medical attention. Do not medicate with "over-the-counter" eye products.

SKIN:
Use of appropriate gloves and thorough hand-washing with hand cleanser is required. Remove contaminated clothing and rinse thoroughly. If skin is damaged or severely irritated, seek medical help.

INGESTION:
If victim is able to swallow, give water, then seek immediate medical help. Do not induce vomiting without medical advice.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Material is non-flammable, but heated material can generate toxic and corrosive vapors.

EXTINGUISHING MEDIA:

Choose media for surrounding fire.

FIRE FIGHTING PROCEDURES:

Water may be used to dilute and cool product to reduce the risk of toxic vapors. Self-contained breathing apparatus is required.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic fumes and/or vapors may form. Self-contained breathing apparatus is required. Decontamination of fire-fighting gear may be needed.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon Oxides, Nitrogen Oxides, chlorinated compounds, zinc fumes

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

AVOID BREATHING VAPORS. Put on gloves and glasses, then use towel to absorb contents of package. The small quantities of a single test aren't environmentally hazardous.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in cool, dry, place. Wear gloves and glasses while performing tests.

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	PEL ppm	PEL mg/m3
1st Ampoule	**----**	**----**	**----**	**-----**	**----**	**----**	**----**	**----**
Trichloroethylene	**100**				**100**		**100**	**C200**
Fast Blue B Salt	**NE**		**NE**		**NE**		**NE**	
2nd Ampoule	**----**	**----**	**-----**	**----**	**----**	**----**	**----**	**----**
Sodium Hydroxide solution		**2**				**2**		**2**

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Generally not needed, as ampoules are small and used immediately. Use approved NIOSH respirator if TLV levels are exceeded.

PROTECTIVE GLOVES:

Wear protective gloves while working with product. Nitrile gloves are a good compromise between protection and allergy concerns.

EYE PROTECTION:

Chemical glasses are required to prevent potential eye contact, irritation or injury.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear appropriate protective clothing and boots as required to prevent skin contact.

WORK / HYGIENIC PRACTICES:

Use good industrial hygiene; wash hands after performing tests and do not use product while eating, drinking, or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR **Yellow to greenish particles in clear liquid 1st ampoule (Trichloroethylene + fast Blue B), colorless liquid NaOH 2nd ampoule.**	VAPOR PRESSURE **100 mm Hg at 32 °C (90°F) for Trichloroethylene**
pH **N/D**	SPECIFIC GRAVITY (WATER = 1) **1.45 (Trichloroethylene)**
BOILING POINT / BOILING RANGE **87°C (189°F) {Trichloroethylene}**	SOLUBILITY IN WATER **Complete for sodium hydroxide, 0.1% for Trichloroethylene**
FLASH POINT **N/D**	VISCOSITY **N/D**
FLAMMABLE LIMITS LEL: **N/D** UEL: **N/D**	VAPOR DENSITY (AIR = 1) **4.53 (Trichloroethylene)**
AUTO-IGNITION TEMPERATURE **410° C (770° F) {Trichloroethylene}**	EVAPORATION RATE (WATER = 1) **<1 for Trichloroethylene**

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	**X**	CONDITIONS TO AVOID: **Extreme Heat (above 120°F)**

INCOMPATIBILITY (MATERIALS TO AVOID):
Strong Acids, Oxidizers, Some Metals

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Chlorinated compounds, carbon oxides, nitrogen oxides, zinc 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)
1st Ampoule	**---------**	**----------**	**----------**
Trichloroethylene	**79-01-6** / **201-167-4**	**Oral, mouse: LD50 = 2402 mg/kg**	**Inhalation, mouse: LC50 = 8450 ppm/4H;**
Fast Blue B Salt	**14263-94-6** / **238-153-2**	**NR**	**NR**
2nd Ampoule	**----------**	**----------**	**----------**
Sodium Hydroxide solution	**1310-73-2** / **215-185-5**	**Oral, Human: LD50 = 1.57 mg/kg Lowest Published Lethal Dose**	**NR**

SECTION 12 - ECOLOGICAL INFORMATION

Harmful to enviroment in large quantities. Cloroform 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

GROUND SHIPMENT WITHIN USA (DOT):

PROPER SHIPPING NAME: **None - Exempted Qty.**
CLASS/ PACK GROUP/ LABELING: **Class8(6.1) with Excepted 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 1710 Trichloroethylene and UN 1824 Sodium Hydroxide Solution - Overall Excepted Qty. E2)**
CLASS/ PACK GROUP/ LABELING: **Class8(6.1) with Excepted 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 Excepted Qty. marking on package. No class 8 or 6.1 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): **Yes -**

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): **This product contains trichloroethylene above the de minimis concentration of 1% (40 CFR 372.38).**

Acute Health:	**Yes**	Chronic Health:	**Yes**
Fire:	**No**	Sudden Release of Pressure:	**No**
Reactive:	**No**		

313 REPORTABLE INGREDIENTS: **Yes - Trichloroethylene (RCRA hazardous waste)**

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **Yes - Trichloroethylene - RQ=100lbs.**

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

State Right to Know: **Trichloroethylene: CA,ILL, MA, NJ, PA, RI. ; Sodium Hydroxide: MA, NJ, PA.**

CIDL (Canadian Ingredient Disclosure List): **No**

CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Referenced on CDSL**

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

WGK Water Quality Index:

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R35 : Causes severe burns. **R45 : May cause cancer.** **R36/38 : Irritating to eyes and skin.** **R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.** **R67 : Vapors may cause drowsiness and dizziness.**	 **T+ -Toxic**  **C**	**S1/2 : Keep locked up and out of the reach of children.** **S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.** **S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).** **S53 : Avoid exposure - obtain special instructions before use.** **S60 : This material and its container must be disposed of as hazardous waste.** **S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.**

SECTION 16 - OTHER INFORMATION

Legend

N/A=Not applicable
N/E= Not Established
N/D=Not Determined
N/R=Not Reported

HMIS HAZARD RATINGS	HEALTH:	**2**	0 = INSIGNIFICANT
	FLAMMABILITY:	**1**	1 = SLIGHT
	PHYSICAL HAZARD:	**1**	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	**C**	3 = HIGH
			4 = EXTREME

REVISION SUMMARY:
Revised 5/1/2012.

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