



MATERIAL SAFETY DATA SHEET

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Marquis Reagent		DATE: May 1, 2012	
PRODUCT NUMBER(S): 902 (1006317), 7602 (1006029)			
TRADE NAME: Marquis Reagent GENERAL USE: Heroin/ Amphetamines testing CHEMICAL FAMILY: Formaldehyde / Sulfuric Acid PRODUCT DESCRIPTION: Clear liquid and Odorless.			
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) Jacksonville, FL 32218		COUNTRY USA	
		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 01-813-248-0585 North America Toll Free International	

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
 Highly corrosive liquid. Both liquid and vapors can cause serious damage to tissues. Avoid strong bases and organic compounds. Formaldehyde is toxic to the liver, kidneys, and eyes.

POTENTIAL HEALTH EFFECTS

INHALATION:
 Inhalation of vapors may cause severe respiratory irritation, headache, and nausea. Chronic exposure may cause respiratory damage. Formaldehyde fumes are toxic. Edema/pneumonia may result; this can be potentially fatal.

SKIN:
 Product is highly corrosive, and may seriously burn skin. Use proper gloves and clothing while working with product. Third degree burns can occur, with permanent scarring.

EYES:
 Liquid or vapor may cause severe burns and ulcerations. Use safety glasses; use of a face shield is advisable. Product can cause irreversible damage to eyes.

INGESTION:
 Product is highly corrosive; ingestion can lead to severe injury, including death. Serious burning of stomach, esophageal tract, throat, and mouth may occur. Damage may be irreversible. Extreme pain will occur. Ingestion of formaldehyde may lead to blindness, liver and kidney failure, and death.

CARCINOGENICITY:

NTP? Yes - Formaldehyde	IARC MONOGRAPHS? Yes - Formaldehyde	OSHA REGULATED? Yes - Formaldehyde
CALIFORNIA, Prop.65?	Yes - Formaldehyde , Sulfuric acid mists	ESIS? Yes - Formaldehyde

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Formaldehyde 37%	1-5	50-00-0	200-001-8	Xn	R40, R43
Sulfuric Acid, Concentrated ACS	>95	7664-93-9	231-639-5	C+	R35

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

Notes: **WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.**

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 and burns. 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:
 Product is corrosive and will damage skin and tissues. 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. Safety Showers are highly recommended for use of this product.

INGESTION:
 Product is highly corrosive; ingestion can lead to severe injury, including death. If victim is able to swallow, give water, then seek immediate medical help.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

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

EXTINGUISHING MEDIA:

N/A - product is non-flammable.

FIRE FIGHTING PROCEDURES:

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic formaldehyde and corrosive sulfur oxides fumes and/or vapors may form. Self-contained breathing apparatus and full chemical-resistant turn-out gear is required. Decontamination of fire-fighting gear may be needed.

HAZARDOUS COMBUSTION PRODUCTS:

May produce fumes containing formaldehyde, which is toxic by inhalation. Self-contained breathing apparatus is required for fire-fighting purposes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

AVOID BREATHING VAPORS. Sequester leak or spill. Use sodium bicarbonate to absorb spill. Do not discharge into waterways or sewer systems. Treat absorbed material as a hazardous waste. DO NOT ADD WATER TO SPILL!!!

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in cool, dry, place. Do not store with metals or combustible materials.

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
Formaldehyde 37%						0.5		5
Sulfuric Acid, Concentrated ACS		1			0.2			1

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Often not needed, as ampoules are small and used immediately. Use approved NIOSH respirator if TLV levels are exceeded. If product is not used immediately, wear a mist respirator.

PROTECTIVE GLOVES:

Always wear protective gloves while working with product.

EYE PROTECTION:

Safety 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. For field use, a rubber apron may be worn as additional protection.

WORK / HYGIENIC PRACTICES:

Use good industrial hygiene. Work carefully with ampoules and always wear protective equipment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Clear liquid and Odorless.	VAPOR PRESSURE 1 mm Hg @ 145.8°F (63.2°C)
pH <1.0	SPECIFIC GRAVITY (WATER = 1) 1.83
BOILING POINT / BOILING RANGE 290°F (143°C)	SOLUBILITY IN WATER Complete
FLASH POINT None	VISCOSITY N/D
FLAMMABLE LIMITS LEL: N/D UEL: N/D	VAPOR DENSITY (AIR = 1) 3.4
AUTO-IGNITION TEMPERATURE NE	EVAPORATION RATE (WATER = 1) N/D

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	X	CONDITIONS TO AVOID: Extreme Heat (above 120°F), Moisture
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INCOMPATIBILITY (MATERIALS TO AVOID):
Alkalis, metals, halogenated salts (fluorides, chlorides, bromides, iodides, chlorates, perchlorates, etc.), organic compounds, water (will generate heat).

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Sulfur compounds.

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)
Formaldehyde 37%	50-00-0	100 mg/kg (ORAL, RAT)	203 mg/m ³ / Unknown Time (INHALATION, MOUSE)
	200-001-8		
Sulfuric Acid, Concentrated ACS	7664-93-9	350 mg/kg (ORAL, RAT)	320 mg/m ³ / 2 Hours (INHALATION, MOUSE)
	231-639-5		

SECTION 12 - ECOLOGICAL INFORMATION

Toxic to aquatic organisms. DO NOT RELEASE PRODUCT INTO ENVIRONMENT!!

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Do not dispose into waterways or sewers. Waste is considered hazardous and must be stored and labeled as such; the user has the responsibility of compliance with federal, state, and local regulations concerning waste disposal. Obey federal, state, and local laws regarding storage of flammable wastes.

SECTION 14 - TRANSPORT INFORMATION

GROUND SHIPMENT WITHIN USA (DOT):
 PROPER SHIPPING NAME: None - Exempted Qty.
 CLASS/ PACK GROUP/ LABELING: Class 8 with Excepted Qty. marking on package. No class 8 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 UN1830 Sulfuric Acid Solution - Excepted Qty. E2)
 CLASS/ PACK GROUP/ LABELING: Class 8 with Excepted Qty. marking on package. No class 8 label required.
 NOTES: This product is exempt from other labeling and waybill requirements.

OCEAN SHIPMENTS (IMDG):
 PROPER SHIPPING NAME: None
 CLASS/ PACK GROUP/ LABELING: Class 8 with Excepted Qty. marking on package. No class 8 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):		Yes - 302 and 313 (Sulfuric Acid)	
Acute Health:	Yes	Chronic Health:	Yes
Fire:	No	Sudden Release of Pressure:	No
Reactive:	Yes		

313 REPORTABLE INGREDIENTS: Yes - Formaldehyde, and RCRA U122 Waste

CERCLA (USA - Comprehensive Response Compensation and Liability Act): Yes - Both Components

State Right to Know: **Sulfuric acid: MA,NJ, PA. ; Formaldehyde CA, ILL, MA,NJ, PA, RI.**



California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **WARNING! This product contains**

CCPR (Canadian Controlled Products Regulations): Yes

CIDL (Canadian Ingredient Disclosure List): Yes

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:	2		
RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:	
R35 : Causes severe burns. R40 : Limited evidence of a carcinogenic effect. R43 : May cause sensitization by skin contact.	 Xn - HARMFUL  C+ - HIGHLY CORROSIVE	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. 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). 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:	4	0 = INSIGNIFICANT
	FLAMMABILITY:	0	1 = SLIGHT
	PHYSICAL HAZARD:	2	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	C	3 = HIGH
			4 = EXTREME

REVISION SUMMARY:
Revised 4/20/2014 Section 14. LB

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	
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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.