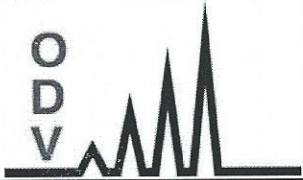



# MATERIAL SAFETY DATA SHEET

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## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> Mecke's Reagent		<b>DATE:</b> May 1, 2012
<b>PRODUCT NUMBER(S):</b> 924 (1006343), 7624 (1006047)		
<b>TRADE NAME:</b> Mecke's Reagent <b>GENERAL USE:</b> Heroin Testing <b>CHEMICAL FAMILY:</b> Inorganic Acid Solution <b>PRODUCT DESCRIPTION:</b> Clear colorless and odorless.		
<b>MANUFACTURED FOR:</b> <b>Safariland LLC</b>	<b>DATE PREPARED:</b> May 1, 2012 <b>SUPERSEDES:</b> August 1, 2011	
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> 13386 International Parkway	<b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b> 800-347-1200	
<b>(CITY, STATE AND ZIP CODE)</b> Jacksonville, FL 32218	<b>COUNTRY</b> USA	<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

Highly corrosive liquid. Both liquid and vapors can cause serious damage to tissues. Avoid strong bases and organic compounds.

### POTENTIAL HEALTH EFFECTS

#### INHALATION:

Inhalation of vapors may cause severe respiratory irritation, headache, and nausea. Chronic exposure may cause respiratory damage.

#### 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.

#### CARCINOGENICITY:

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

CALIFORNIA, Prop.65?

Sulfuric acid mists -Carcinogenic.

## SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Selenious Acid (right ampoule)	<1	7783-00-8	231-974-7	T+, C+	R28, R35
Sulfuric Acid (right ampoule)	>95	7664-93-9	231-639-5	C+	R35
Sulfuric Acid (left ampoule)	>95	7664-93-9	231-639-5	C+	R35

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

### HAZARDOUS COMBUSTION PRODUCTS:

May produce fumes containing selenium compounds, which are highly toxic. 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. DO NOT ADD WATER TO SPILL!!! Sequester leak or spill. Use sand or kaolin to absorb spill. Do not discharge into waterways or sewer systems.

## SECTION 7 - HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in cool, dry, place. Avoid moisture.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	TLV/TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>
<b>Selenious Acid (right ampoule)</b>	<b>MAK: (measured as respirable fraction)</b>				<b>0.2</b>			
		<b>0.05 mg/m<sup>3</sup></b>						
<b>Sulfuric Acid (right ampoule)</b>		<b>1</b>			<b>0.2</b>			<b>1</b>
<b>Sulfuric Acid (left ampoule)</b>		<b>1</b>			<b>0.2</b>			<b>1</b>

### 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.

#### EYE PROTECTION:

Chemical goggles 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.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	VAPOR PRESSURE
#REF!	NE
pH	SPECIFIC GRAVITY (WATER = 1)
<1.0	~1.7-1.8 (sulfuric acid)
BOILING POINT / BOILING RANGE	SOLUBILITY IN WATER
N/D	Complete
FLASH POINT	VISCOSITY
None	N/D
FLAMMABLE LIMITS	VAPOR DENSITY (AIR = 1)
LEL: N/D UEL: N/D	~3.4 for sulfuric acid
AUTO-IGNITION TEMPERATURE	EVAPORATION RATE (WATER = 1)
NE	N/D



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## SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	X	CONDITIONS TO AVOID: Extreme Heat (above 120°F)
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: Selenium compounds, sulfur compounds			
HAZARDOUS POLYMERIZATION: Will Not Occur.		CONDITIONS TO AVOID: None Related to Polymerization.	

## SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Selenious Acid (right ampoule)	7783-00-8	11 mg/kg (INTRAVENOUS, MOUSE)	NR
	231-974-7		
Sulfuric Acid (right ampoule)	7664-93-9	350 mg/kg (ORAL, RAT)	320 mg/m3 / 2 Hours (INHALATION, MOUSE)
	231-639-5		
Sulfuric Acid (left ampoule)	7664-93-9	350 mg/kg (ORAL, RAT)	320 mg/m3 / 2 Hours (INHALATION, MOUSE)
	231-639-5		

## SECTION 12 - ECOLOGICAL INFORMATION

Toxic to aquatic organisms.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL METHOD:

Do not dispose into waterways or sewers. Waste may be considered hazardous; 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):

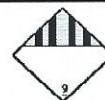
PROPER SHIPPING NAME: None - (Classified under UN1830 Sulfuric Acid Solution - Excepted Qty.  
 CLASS/ PACK GROUP/ LABELING: Class 8 with Excepted Qty. marking on package. No class 8 label required.  
 NOTES: This product is exempt from other labeling and waybill requirements.

### 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 (Selenious Acid) 302 and 313 (Sulfuric Acid)**

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

**313 REPORTABLE INGREDIENTS:** This material contains Sulfuric Acid, and Selenious Acid, 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): **Yes - All ingredients**  
 State Right to Know: **Listed as required.**  
 California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **Yes - Sulfuric Acid (Mists)**  
 CCPR (Canadian Controlled Products Regulations): **Yes - Corrosive (Section 65, Class E)**  
 CIDL (Canadian Ingredient Disclosure List): **Yes - Selenious Acid, Sulfuric Acid, Formaldehyde**  
 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.	 <b>C+- CORROSIVE</b>	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. S30 : Never add water to this product. 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/D = Not Determined  
 N/E = Not Established  
 N/R = Not Reported

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

### REVISION SUMMARY:

Revised 5/1/2012.

### MSDS Prepared by:

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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.