



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mayer's Reagent		DATE: August 01, 2011	
PRODUCT NUMBER: 901 (1006316), 7601 (1006028)			
TRADE NAME: Mayer's Reagent GENERAL USE: General Narcotics Test CHEMICAL FAMILY: Dye solution PRODUCT DESCRIPTION: Clear colorless liquid			
MANUFACTURER: Safariland LLC	DATE PREPARED: August 1, 2011 SUPERSEDES: September 8, 2008		
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		
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. Product is highly toxic and dangerous to the environment. Iodide compounds may cause thyroid problems.		
POTENTIAL HEALTH EFFECTS		
INHALATION: Unlikely source of exposure - irritation of respiratory tract may occur. Mercuric salts may be absorbed through inhalation.		
SKIN: Irritation, rash, hypersensitivity.		
EYES: May cause irritation, redness and pain.		
INGESTION: Ingestion of Mercuric Chloride may cause headache, dizziness, nausea, vomiting, diarrhea, headache, breathing difficulties, renal injury, coma, and death. Ingestion of iodides may result in thyroid dysfunction.		
CARCINOGENICITY:		
NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65?	NO	

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Mercuric Chloride	1-2	7487-94-7	231-299-8	T+, C, N+	R28, R34, R50/53, R48/24/25
Potassium Iodide	1-2	7681-11-0	231-659-4	None	None

Notes: Potassium tri-iodomercurate aqueous solution formed in this mixture.

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove victim to fresh air. Seek immediate medical assistance. Get medical attention for any breathing difficulty.
EYES: Flush with water for 15 minutes occasionally lifting the eyelids. Seek medical attention.
SKIN: Wash with soap and water.
INGESTION: Give plenty of water and induce vomiting if victim is conscious and able to swallow. Seek immediate medical attention.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
 Heated product may form toxic mercury vapors, but is not expected to be a fire hazard.

EXTINGUISHING MEDIA:
 Use media appropriate for surrounding fire. Water may be used to cool product and reduce fumes.

FIRE FIGHTING PROCEDURES:
 Emergency responders should wear bunker gear and NIOSH or European EN-149 vapor respirators. Avoid exposure to decomposition products (29CFR 1910.156). Proper eye and skin protection should also be used.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Heating may produce toxic mercury fumes.

HAZARDOUS COMBUSTION PRODUCTS:
 Mercury fumes, iodinated compounds

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 For small spills, put on personal protective equipment, mix spilled material with inert substance (sulfur is a good choice), and absorb product. Sweep up product. For large spills, contact authorities.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
 Store in cool, dry place. Wear proper personal protective equipment while handling product. Do not eat, drink, or smoke while handling product. Always wash hands after use. Practice good industrial hygiene at all times.

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	PEL ppm	PEL mg/m3
Mercuric Chloride	NE	NE	NE	NE	NE	0.025*	NE	NE
Potassium Iodide	NE	NE	NE	NE	NE	NE	NE	NE

* - as mercury

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
 Recommended to prevent respiratory irritation where ventilation is insufficient. Use NIOSH or E.U. EN149 standard approved mist respirators for areas where general ventilation is not possible or is insufficient..

PROTECTIVE GLOVES:
 Wear gloves while handling product to avoid irritation and absorption through skin.

EYE PROTECTION:
 Safety glasses or splash goggles are required for handling product, and are recommended as good laboratory practice.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
 Eye wash station and safety shower in the event of eye contact with material. Protective apron or lab coat suggested.

WORK / HYGIENIC PRACTICES:
 Employ good, industrial hygiene practices by using adequate ventilation and personal protection, as needed. Do not smoke, eat, or drink while handling product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Clear colorless liquid.	VAPOR PRESSURE NA
pH NA	SPECIFIC GRAVITY (WATER = 1) ND
BOILING POINT NA	SOLUBILITY IN WATER Complete
MELTING POINT NA	PERCENT VOLATILE NE
FLASH POINT NE	VAPOR DENSITY (AIR = 1) NE
AUTO-IGNITION TEMPERATURE NE	EVAPORATION RATE (WATER = 1) NE

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE X	CONDITIONS TO AVOID:
		Extreme Heat - toxic mercury vapors will form.

INCOMPATIBILITY (MATERIALS TO AVOID):
Ammonia, sulfides, sulfites, formates, hypophosphites

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Boron compounds, sodium oxides

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)
Mercuric Chloride	7487-94-7	Oral, Mouse: LD50 = 6 mg/kg Oral, Rat: LD50 = 1 mg/kg	NR
	231-299-8		
Potassium Iodide	7681-11-0	NR	NR
	231-659-4		

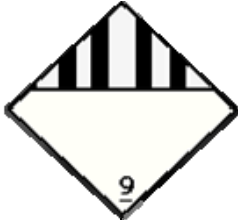
SECTION 12 - ECOLOGICAL INFORMATION

Mercury compounds are highly toxic to the environment and are known to bioaccumulate in fish. Treat product as hazardous. DO NOT RELEASE PRODUCT INTO BODIES OF WATER OR SEWER SYSTEMS.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 Dispose of product waste as well as containers as hazardous waste, in accordance with all local, state and federal regulations.

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): **Yes**
 SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): **Yes _ Sections 311 and 312.**
 Acute Health: **YES** Chronic Health: **YES**
 Fire: **NO** Sudden Release of Pressure: **NO**
 Reactive: **NO**

313 REPORTABLE INGREDIENTS: **None**
 CERCLA (USA - Comprehensive Response Compensation and Liability Act): **Yes - Mercuric Chloride**
 California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **Yes - (Mercuric Chloride) See Section 3**
 State Right to Know: **Mercuric chloride: CA, MA, NJ, PA, RI Potassium Iodide: NJ ,PA**
 CPR (Canadian Controlled Products Regulations): **Not listed**
 CIDL (Canadian Ingredient Disclosure List): **Listed.**
 DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Components listed on DSL.**
 EINECS (European Inventory of Existing Commercial Chemical Substances): **Referenced.**
 WGK Water Quality Index: **1**

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
<p>R25 : Toxic if swallowed. R48/24/25 : Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>	 <p>T-Toxic</p>  <p>1</p>	<p>S1/2 : Keep locked up and out of the reach of children. 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.</p>

SECTION 16 - OTHER INFORMATION

Legend: NA= Not Applicable, NE= Not Established, ND= Not Determined, NR=Not Reported.

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

REVISION SUMMARY:
 Revised to E.U. protocols 8/1/2011 supersedes 9/8/2008. JTV

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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.