



RICCA CHEMICAL COMPANY
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MATERIAL SAFETY DATA SHEET
(for compliance with 29CFR 1910.1200,
OSHA Hazard Communication Standard)

PRODUCT IDENTITY		RICCA CHEMICAL COMPANY CATALOG NUMBER(S)
NESSLER REAGENT		5250
Date Prepared/Revised	4-1-87	Information furnished applies to all sizes. N/A = Not Applicable N/D = Not Determined

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION	SECTION I		
Hazardous Components (CAS No.)	Concentration in Product	OSHA PEL	ACGIH TLV
Sodium Hydroxide (1310-73-2)	160 gm./l.	2mg/M ³	C 2mg/M ³
Mercuric Iodide (7774-29-0)	100 gm./l.	0.1mg(Hg)/M ³ *	0.1mg(Hg)/M ³
Potassium Iodide (7681-11-0)	70 gm./l.	Not Listed	Not Listed
		*(skin)	
Remainder of composition is either water or other non-hazardous substance(s) and/or hazardous ingredient(s) below reportable hazardous level(s).			

PHYSICAL AND CHEMICAL DATA	SECTION II	
Melting Point, °C., approx.	-6	Boiling Point, °C., approx. 102
Specific Gravity, approx.	1.32	Solubility in Water Infinite
Description: Clear, light yellow, odorless liquid.		

FIRE AND EXPLOSION HAZARD DATA	SECTION III
Flash Point, °C., approx.	N/A
Extinguishing Media	
	N/A
Special Fire Fighting Procedures	
	N/A
Unusual Fire and/or Explosion Hazards	
	N/A

REACTIVITY DATA	SECTION IV
Conditions and/or Materials to Avoid	Stable under normal conditions of use and storage.
Hazardous Decomposition or Byproducts	Hazardous polymerization will not occur.

HEALTH HAZARD DATA		SECTION V	
Route(s) of Entry:	Inhalation Yes	Skin Yes	Ingestion Yes
Carcinogenicity:	NTP No	IARC Monographs No	OSHA Regulated No
Health Hazards			
Solutions containing Mercury are poisonous, toxic and may be absorbed through skin or by inhalation. Sodium Hydroxide solutions are corrosive. Target Organs include: Eyes, skin, respiratory system, central nervous system, kidneys. LD 50, Oral, Rat: Mercuric Iodide: 40mg/kg.			
Signs and Symptoms of Exposure			
Irritation of eyes, mucous membranes, cough, irritation of skin, fatigue, weakness, loss of weight, kidney damage.			
Medical Conditions Generally Aggravated by Exposure			
Chronic Respiratory Disease. Pre-existing Eye Problems. Pre-existing Skin Disorders. Impaired Liver function. Impaired Kidney function.			
Emergency and First Aid Procedures			
In all cases seek qualified evaluation. EYE CONTACT: Irrigate immediately with large quantities of running water. SKIN CONTACT: Water flush immediately. Remove any contaminated clothing. INHALATION: Remove to fresh air. Give artificial respiration if necessary. INGESTION: Dilute immediately with water or milk. Do not induce vomiting. Get Medical Help Immediately!			

PRECAUTIONS FOR SAFE HANDLING AND USE		SECTION VI	
Steps to Be Taken in Case Material is Released or Spilled			
Absorb on vermiculite or paper. Place in sealed container for proper disposal.			
Waste Disposal Method			
Place in sealed container for disposal at approved waste facility.			
Precautions to Be Taken in Handling and Storing			
Protect from physical damage.			

CONTROL MEASURES		SECTION VII	
Ventilation/Respiratory Protection: Normal room ventilation is adequate.			
Eye Protection: Safety glasses with side shields, or goggles.			
Protective Gloves: Rubber.			
Other Protective Clothing or Equipment: Lab Coat or Lab Apron.			
Work/Hygienic Practices			
Wash hands after handling this or any other chemical before eating, drinking or smoking.			

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard, mainly because of the relatively low volumes of this product that will be dispensed or used at a time. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.