

# MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT IDENTIFICATION

**Ammonia Nitrogen Reagent #2 (Nessler Reagent)** *Code Nr. 4798*

## 2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
Potassium Hydroxide	1310-58-3		15	2 mg/cubic m	C 2 mg/cubic m
Mercuric Chloride	7487-94-7		3.3	N/A	0.1 mg/cubic m (as Hg)
Warning! This product contains mercury compounds, chemicals known to the state of Calif. to cause birth defects or other reproductive harm.					

## 3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Potassium Iodide	7681-11-0	6
Water to 100%		

## 4. PHYSICAL DATA

*Appearance:* Clear Light yellow Liquid  
*Solubility in Water:* Soluble    *Odor:* None    *Boiling Point:* Unknown    *Melt. Point:* N/A  
*Vapor Pressure:* Unknown    *Vapor Density:* Unknown    *pH:* 14

## 5. FIRE AND EXPLOSION DATA

*Flash Point (method used):* N/A    *Flammable Limit: LEL:* N/A    *UEL:* N/A  
*Extinguishing Media:* Not a fire hazard  
*HMIS Hazard: Health - 3    Flammability - 0    Reactivity - 2    Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least*  
*Special Fire Fighting Procedures:*  
 N/A  
*Unusual Fire & Explosion Hazard:*  
 N/A

## 6. REACTIVITY DATA

*Stability:*    *Conditions to avoid:* N/A  
 *Stable*    *Incompatibility (Materials to avoid):*  
 Strong acids, metals  
 *Unstable*    *Hazardous Decomposition Products:* N/A

## 7. HEALTH HAZARD DATA

*Toxicity:* orl rat LD50: 1 mg/kg; skin rat LD50: 41 mg/kg (for mercuric chloride solid)  
*Primary Route of Entry:*     *Inhalation*     *Skin*    *Carcinogenicity:*     *None*     *NTP*  
     *Ingestion*     *N/A*     *OSHA*     *IARC*  
*Other Health Related Comments:*  
 Mercuric chloride can have toxic effects on nervous system & is a possible mutagen.  
*Target Organs:* Corrosive to all body parts,  
*Signs and symptoms of exposure:*  
 Poisonous. Causes severe burns, may be fatal if swallowed.  
*Medical Condition Aggravated by Exposure:* N/A

## 8. EMERGENCY FIRST AID PROCEDURES

*Eye Contact:* Immediately flush with water for 15 minutes. Get prompt medical attention.  
*Ingestion:* Do not induce vomiting. Rinse out mouth. Drink plenty of water. Call a doctor immediately!  
*Inhalation:*  
 Remove to fresh air.  
*Skin Contact:*  
 Immediately flush with water for 15 minutes while removing affected clothing and shoes. Consult physician.

## 9. SPILL AND DISPOSAL PROCEDURES

*Spill and Leak:*  
 Absorb on inert material (kitty litter) or spill pads. Place into a clean, dry plastic pail and cover with lid. Dispose of as hazardous waste. Do not pour down sinks and drains.  
*Disposal:*  
 Any free liquid waste may be treated with ammonium hydroxide to precipitate the mercury; the precipitated mercury "sludge" must be disposed of as hazardous waste, in accordance with federal, state and local regulations.

## 10. PRECAUTIONARY MEASURES

*In Handling:*     *Gloves*     *Eye Protection*     *N/A*     *Other:* Lab Coat  
*Ventilation*     *Normal*     *Mechanical*     *Respiratory Protection*  
*Work/Hygienic Practices:* No eating or smoking while handling. Wash after handling. Avoid contact w/ skin & clothing.

## 11. SPECIAL PRECAUTIONS

This product contains mercury, a chemical known to the state of Calif. to cause reproductive toxicity

**DATE:** 8/6/01    The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.

▲ This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.