LM3642SC

LaMotte

MSDS

Material Safety Data Sheet

PO Box 329 • 802 Washington Avenue • Chestertown, MD 21620 • USA
Telephone Number For Information 410-778-3100
24 Hour Emergency Number (CHEM-TEL) 800-255-3924

1. Product Identification

Product Code: V-4798
Product Description: Ammonia Nitrogen Reagent #2 (Nessler Reagent)

Manufactured By: LaMotte Company
802 Washington Avenue
Chestertown, MD 21620

2. Composition/Information on Ingredients

Hazardous	Name	CAS #	%	OSHA PEL	ACGIH TLV
Yes	Potassium Hydroxide	1310-58-3	15	C2mg/cubic m	C 2 mg/cubic m
Yes	Mercuric Chloride	7487-94-7	3.3	N/A	0.1 mg/cubic m (as Hg)
Yes	Potassium Iodide	7681-11-0	6	N/A	N/A
No	Water	7732-18-5	To 100%		

3. Hazards Overview

Primary Route of Entry: **Inhalation Skin**

Poison! Danger! Corrosive. Severe burns. Vapors irritating to respiratory tract. Corrosive to eyes and skin. Toxic if swallowed.

HMIS Hazard: (Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least)
Health: 3 Flammability: 0 Reactivity: 2

Carcinogenicity: None

Other Health Related Comments:
Mercuric chloride can have toxic effects on the nervous system. Investigated as a tumorigen, mutagen, reproductive effector (possible teratogen). All forms of mercury can cross the placenta to the fetus.

4. First Aid Measures

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

5. Fire Fighting Measures

Flash Point: N/A **LEL:** N/A **UEL:** N/A

Fire Rating

Extinguishing Media: Not a fire hazard
Special Fire Fighting Procedures: N/A
Hazardous Combustion and/or Decomposition Products: N/A
Unusual Fire & Explosion Hazard: N/A

6. Accidental Release Measures

Absorb on inert material (vermiculite) 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.

7. Handling & Storage

Store in cool, dry, storage area away from incompatible materials.

8. Exposure Controls/Personal Protection

Ventilation

Use with adequate ventilation.

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygienic Practices: No eating or smoking while handling. Wash after handling. Avoid contact w/ skin & clothing.

9. Physical & Chemical Properties

Appearance: Clear Light-yellow Liquid
Odor: None
Solubility in Water: Soluble

Boiling Point: >100 deg C
Melting Point: N/A
pH: 14
Vapor Density: Unknown
Vapor Pressure: Unknown

10. Stability & Reactivity

Stable: Yes
Conditions to Avoid: heat
Materials to Avoid: Finely powdered metals, strong acids, ammonia

Hazardous Decomposition Products: N/A

11. Toxicological Information

For mercuric chloride solid--oral rat LD50: 1 mg/kg; skin rat LD50: 41 mg/kg; oral human LDLo: 29 mg/kg
For potassium hydroxide solid--oral rat LD50: 273 mg/kg. Investigated as a mutagen.
Target Organs: Corrosive to all body parts

12. Ecological Information

Environmental Fate:
For Mercury: Mercuric chloride has an experimentally determined bioconcentration factor (BCF) of greater than 100. This material is expected to significantly bioaccumulate.

Environmental Toxicity:
For Mercury: This material is expected to be toxic to aquatic life. The LC50/96-hour values for fish are less than 1 mg/l.

13. Disposal Considerations

Free liquid waste may be treated with ammonium hydroxide to precipitate the mercury compounds; the precipitated mercury "sludge" must be disposed of as hazardous waste. Under U.S. law even small amounts of mercury may not be disposed of to sewers or water courses. We recommend direct disposal of #4798 reagent to a licensed hazardous waste facility in accordance with federal, state and local regulations.

14. Transport Information

Domestic (D.O.T.)

Proper Shipping Name: CORROSIVE LIQUIDS, TOXIC, N.O.S. (Potassium Hydroxide/Mercuric Chloride)
Hazard Class/Div: 8, 6.1
UN 2922
Packing Group: II

International (I.A.T.A.)

Proper Shipping Name: CORROSIVE LIQUID, TOXIC, N.O.S. (Potassium Hydroxide/Mercuric Chloride)
Hazard Class/Div: 8, 6.1
UN 2922
Packing Group: II

Product Code: V-4798 **Product Description:** Ammonia Nitrogen Reagent #2 (Nessler Reagent)

15. Regulatory Information

Chemical Inventory Status

Ingredient	USA TSCA	Europe EC	---Canada--- DSL	NDSL	Australia	Japan
Potassium Hydroxide (1310-58-3)	Yes	Yes	Yes	No	Yes	Yes
Mercuric Chloride (7487-94-7)	Yes	Yes	Yes	No	Yes	Yes
Potassium Iodide (7681-11-0)	Yes	Yes	Yes	No	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	No	Yes	Yes

Federal, State, & International Regulations

Ingredient	---SARA 302---- RQ	TPQ	-------- SARA 313 -------- Listed	Chemical Category	CERCLA	RCRA 261.33	TSCA 8(D)
Potassium Hydroxide (1310-58-3)	No	No	No	No	1000	No	No
Mercuric Chloride (7487-94-7)	500	500*	Yes	Mercury compound	1	No	No
Potassium Iodide (7681-11-0)	No	No	No	No	No	No	No
Water	No	No	No	No	No	No	No

Ingredient	------ SARA 311/312 ------ Hazard Categories	---------- Australia ---------- Hazchem Code	Poison Schedule	This MSDS is WHMIS Compliant
Potassium Hydroxide (1310-58-3)	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Pure/Solid)	2R	S6	
Mercuric Chloride (7487-94-7)	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No (Pure/Solid)	2X	S7	
Potassium Iodide (7681-11-0)	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No (Pure/Solid)	None allocated	None allocated	
For reagent V-4798 liquid mixture as a whole	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Mixture / Liquid)	?	?	Yes

State Regulations: California—This product contains mercury, a chemical known to the state of California to cause birth defects or other reproductive harm.

16. Other Information

Prepared By: IP

Revised: 3/01/2005