



MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

1. Product Identification

Product Code: 7665

Product Description: Lead Reagent #2

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	1336-21-6 Ammonium Hydroxide	29	50 ppm as NH ₃	25 ppm as NH ₃
Yes	143-33-9 Sodium Cyanide	10	5 mg/cubic m, skin as CN	5 mg/cubic m, skin as CN
No	7732-18-5 Water	to 100%		

3. Hazards Overview

Primary Route Of Entry: Ingestion Inhalation Skin

Weakness, dizziness, confusion, headache, unconsciousness, convulsions. May be fatal. Can be absorbed through the skin.

HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 3 Flammability: 0 Reactivity: 1

Carcinogenicity: None

Other Health Related Comments:

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4. First Aid Measures

Eye Contact: Immediately flush with water for 15 minutes. Consult a physician.

Skin Contact: Immediately flush with water for 15 minutes. Remove affected clothing and wash skin with soap and water.

Ingestion: Immediately induce vomiting and call a doctor. Prompt treatment is essential!

Inhalation: If HCN gas (almond odor) has been inhaled (addition of acid to a cyanide sol'n) call 911-Get immediate medical aid!

5. Fire Fighting Measures

Flash Point (Method Used): N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Not a fire hazard

Special Fire Fighting Procedures: Wear goggles and self contained breathing apparatus.

Unusual Fire & Explosion Hazard: Contact with acid liberates poisonous hydrogen cyanide gas.

6. Accidental Release Measures

Wear gloves & eye protection. Take up w/ inert absorbent or scoop up into a beaker or non-metal container. Either hold material in closed container for disposal as hazardous waste, or treat & destroy cyanide in laboratory: IN FUME HOOD --

7. Handling & Storage

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

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygenic Practices: Avoid contact w/skin and clothing. Avoid any contact w/acids as this liberates poisonous cyanide gas

9. Physical & Chemical Properties

Appearance: Clear Colorless Liquid

Solubility In Water: Soluble

Odor: Ammonia

pH: 13-14

Vapor Density: Unknown

Vapor Pressure: Unknown

Boiling Point: Unknown

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: N/A

Incompatibility (Materials To Avoid): Acids

Hazardous Decomposition Products: Ammonia, cyanide gas

11. Toxicological Information

oral human LDLo: 2.9 mg/kg for solid sodium cyanide

Target Organs: Lungs Blood Bone Marrow

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12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

decompose cyanide by adding a strong alkaline sol'n of calcium hypochlorite until bubbling ceases & there is a detectable excess of chlorine. Let stand for 24 hours. Flush to drain with water. Follow federal, state and local regulations.

14. Transportation Information

Proper Shipping Name:

DOT: CYANIDE SOLUTIONS, N.O.S.
(10% SODIUM CYANIDE, 15% AMMONIA)

IATA: CYANIDE SOLUTION, N.O.S.
(10% SODIUM CYANIDE, 15% AMMONIA) ALWAYS USE POIS. PACK

Hazard Class/Div:

DOT: 6.1

IATA: 6.1

UN: 1935

Packing Group: I

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	1336-21-6 Ammonium Hydroxide	Yes	Yes	Yes	No	Yes	Yes
Yes	143-33-9 Sodium Cyanide	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

Federal, State, & International Regulations

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
1336-21-6 Ammonium Hydroxide	No	No	No	No	1000	No	No
143-33-9 Sodium Cyanide	10	100	No	Cyanide comp.	10	P106	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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--- SARA 311/312 ---

----- Australia -----

Hazard Categories

Hazchem

Poison

This MSDS Is

Ingredient **Acute** **Chronic** **Fire** **Pressure** **Reactivity** **Code** **Schedule** **WHMIS Compliant**

1336-21-6 Yes Yes No No No 2P S6
Ammonium Hydroxide

143-33-9 Yes Yes No No No 4X S7
Sodium Cyanide

7732-18-5 No No No No No None Allocated None Allocated
Distilled Water

product 7665 No Yes No Yes No Yes
as a whole

16. Other Information

Keep this solution away from acids!!

Prepared By: IP, Regulatory Affairs Department

Revised: 2005-09-06
