



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: 4034

Product Description: DDC Reagent

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	3	50 ppm as NH3	25 ppm as NH3
Yes	108-88-3 Toluene	<0.1	100 ppm (airborne)	50 ppm (skin)
Yes	20624-25-3 Sodium Diethyldithiocarbamate, trihydrate	1	N/E	N/E
	Water to 100%			

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion Inhalation

Vapors and liquid cause irritation to eyes, skin and respiratory system. Harmful if swallowed.

HMIS Hazard

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

Health: 1 Flammability: 0 Reactivity: 0

Carcinogenicity: None:

Other Health Related Comments:

Warning: This product contains toluene, a chemical known to the state of California to cause birth defects and other reproductive harm. (1-2 drops of toluene per liter of reagent are used as a preservative).

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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. Wash with soap and water.

Ingestion: Do not induce vomiting. Rinse mouth, drink glass of water or milk. Call a physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen.

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: N/A

Unusual Fire & Explosion Hazard: N/A

6. Accidental Release Measures

Carefully neutralize with dilute hydrochloric acid or vinegar. Mop up and flush down drain with excess water.

7. Handling & Storage

Store in cool, ventilated storage area away from such incompatible materials as strong acids.

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Use with adequate ventilation

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: Use only with adequate ventilation. Avoid contact with skin and clothing. Wash after handling.

9. Physical & Chemical Properties

Appearance: Clear Colorless Liquid

Solubility In Water: Soluble

Odor: Pungent, ammonia

pH: 12

Vapor Density: <1 (Air = 1)

Vapor Pressure: ca. 50 mm Hg @ 20 deg C

Boiling Point: below 100 deg C (ammonia)

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat

Incompatibility (Materials To Avoid): Strong acids, metals, chlorine and bleaches

Hazardous Decomposition Products: ammonia, NO_x; reaction with strong acid can release carbon disulfide.

11. Toxicological Information

Oral rat LD50: 350 mg/kg, ammonium hydroxide; 1500 mg/kg, sodium diethyldithiocarbamate. Ammonium hydroxide investigated as a mutagen. Sodium diethyldithiocarbamate investigated as a tumorigen and mutagen.

Target Organs: Lung Skin

Pre-Existing Conditions Aggravated By Exposure: Respiratory conditions; asthma

12. Ecological Information

This material is not expected to significantly bioaccumulate.

13. Disposal Considerations

Neutralize with dilute hydrochloric acid or vinegar, then flush down drain with excess water. Dispose according to federal, state and local regulations.

14. Transportation Information

Not Regulated For Transport

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	108-88-3 Toluene	Yes	Yes	Yes	No	Yes	Yes
Yes	148-18-5 Sodium Diethyldithiocarbamate anhydrous	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
108-88-3 Toluene	No	No	Yes	No	1000	U220	No
148-18-5 Sodium Diethyldithiocarbamate anhydrous	No	No	No	No	1	No	No

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Product Description: DDC Reagent

--- SARA 311/312 ---

----- Australia -----

Hazard Categories

Hazchem

Poison

This MSDS Is

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

1336-21-6 Ammonium Hydroxide	Yes	Yes	No	No	No	2P	S6	
108-88-3 Toluene	Yes	Yes	Yes	No	No	3[Y]E	S6	
148-18-5 Sodium Diethyldithiocarbamate anhydrous	Yes	No	No	No	No	None Allocated	None Allocated	
product 4034 as a whole	Yes	No	No	No	No	None Allocated	None Allocated	Yes

16. Other Information

Prepared By: IP, Regulatory Affairs Department

Revised: 2006-06-07
