



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: P-4259

Product Description: HARD 1

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	1310-73-2 Sodium Hydroxide	5.4	C 2 mg/m ³	C 2 mg/m ³
Yes	102-71-6 Triethanolamine; (Trolamine)	5.6	N/E	5 mg/m ³
Yes	7791-18-6 Magnesium Chloride	<0.1	N/E	N/E
No	7732-18-5 Water	to 100%		

3. Hazards Overview

Primary Route Of Entry: Eye Skin Ingestion

Warning! Corrosive. Can cause severe irritation or burns to all body tissue. Harmful if swallowed.

HMIS Hazard

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

Health: 2 Flammability: 1 Reactivity: 1

Carcinogenicity: None:

Other Health Related Comments:

Trolamine is irritating to eyes, respiratory system and skin. Can cause allergic contact dermatitis, though not common. Sodium hydroxide has been investigated as a mutagen.

4. First Aid Measures

- Eye Contact:** Immediately flush with gentle stream of water, while lifting upper and lower eyelids, for 15 minutes. Contact physician
- Skin Contact:** Immediately flush with water for 15 minutes while remove affected clothing/shoes. Rinse skin thoroughly. Contact physician.
- Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Rinse out mouth and drink several glasses of water or milk. Contact physician.
- Inhalation:** If vapor or mist is inhaled, remove to fresh air. If breathing is difficult, give oxygen. Contact physician.
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5. Fire Fighting Measures

- Flash Point (Method Used):** 100% TROLAMINE limits **LEL:** 1.3% **UEL:** 8.5%
- Extinguishing Media:** Not a fire hazard
- Special Fire Fighting Procedures:** N/A
- Unusual Fire & Explosion Hazard:** N/A
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6. Accidental Release Measures

Ventilate area. Wear appropriate PPE (section 8). Containerize liquid where appropriate or absorb onto inert noncombustable material. Place in a chemical waste container and hold for disposal according to federal, state, and local regulations.

7. Handling & Storage

Store tightly closed in a cool, dry, storage area away from sunlight and incompatible materials (such as strong acids or metals).

8. Exposure Controls/Personal Protection

Ventilation

Normal Respiratory

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: Use in well-ventilated area. Avoid contact with eyes, skin, and clothing. Wash after handling.

9. Physical & Chemical Properties

Appearance: Clear colorless liquid

Solubility In Water: Soluble

Odor: None

pH: 13 - 14

Vapor Density: >1 (Air=1)

Vapor Pressure: <1 mm Hg @ 20°C

Boiling Point: Unknown

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat, light

Incompatibility (Materials To Avoid): Strong acids, oxidizers, metal powders.

Hazardous Decomposition Products: CO_x, NO_x

11. Toxicological Information

Oral rat LD50: 4920mg/kg for Triethanolamine.

Target Organs: Corrosive to all body parts Eyes Respiratory System Skin

Pre-Existing Conditions Aggravated By Exposure: Trolamine: Asthma; NaOH: skin disorders

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12. Ecological Information

Information Not Yet Available.

13. Disposal Considerations

Dispose of in accordance to federal, state and local regulations. If permitted, pour into large amount of water, neutralize, then flush down drain with excess water.

14. Transportation Information

Proper Shipping Name:

DOT: SODIUM HYDROXIDE SOLUTION

IATA: SODIUM HYDROXIDE SOLUTION

Hazard Class/Div:

DOT: 8

IATA: 8

UN: 1824

Packing Group: II

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA	Europe	--- Canada ---		Australia	Japan
		TSCA	EC	DSL	NDSL		
Yes	1310-73-2 Sodium Hydroxide	Yes	Yes	Yes	No	Yes	Yes
Yes	102-71-6 Triethanolamine	Yes	Yes	Yes	No	Yes	Yes
Yes	7786-30-3 Magnesium Chloride, anhydrous	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			
1310-73-2 Sodium Hydroxide	No	No	No	No	1000	No	No
102-71-6 Triethanolamine	No	No	No	No	No	No	No
7786-30-3 Magnesium Chloride, anhydrous	No	No	No	No	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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--- SARA 311/312 ---

----- Australia -----

Hazard Categories

**Hazchem
Code**

**Poison
Schedule**

**This MSDS Is
WHMIS Compliant**

Ingredient **Acute** **Chronic** **Fire** **Pressure** **Reactivity**

1310-73-2 Yes No No No Yes
Sodium Hydroxide

102-71-6 Yes No No No No None Allocated None Allocated
Triethanolamine

7786-30-3 Yes No No No No None Allocated None Allocated
Magnesium Chloride, anhydrous

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

product P-4259 Yes No No No No 2R S5 Yes
as a whole

16. Other Information

Keep out of reach of children.

Prepared By: Regulatory Affairs Department

Revised: 4/1/2009
