



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: 4004

Product Description: Sodium Hydroxide, 1.0 N

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	4	C 2 mg/cubic m	C 2 mg/cubic m
No	7732-18-5 Water	to 100%		

3. Hazards Overview

Primary Route Of Entry: 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: 0 Reactivity: 1

Carcinogenicity: None:

Other Health Related Comments:

Product Code: 4004

Product Description: Sodium Hydroxide, 1.0 N

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 rinse skin thoroughly.

Ingestion: Do not induce vomiting. Rinse out mouth. Drink plenty of water. Call a doctor immediately.

Inhalation: N/A

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

Wear gloves and eye protection. Carefully neutralize with vinegar or other dilute acid (6 M HCl). Mop up and flush to drain with excess water.

7. Handling & Storage

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

8. Exposure Controls/Personal Protection

Ventilation

Normal

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: 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: 14

Vapor Density: <1 (Air=1)

Vapor Pressure: <17 mm Hg @ 20 deg C

Boiling Point: 102 deg C (5% soln)

Melting Point: (-) 4 deg C (5% soln)

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: N/A

Incompatibility (Materials To Avoid): Strong acids, metals

Hazardous Decomposition Products: N/A

11. Toxicological Information

Sodium hydroxide investigated as a tumorigen, mutagen.

Target Organs: Corrosive to all body parts Skin

Product Code: 4004

Product Description: Sodium Hydroxide, 1.0 N

12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Neutralize and flush down drain with excess water. Dispose according to federal, state and local regulations.

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
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
7732-18-5 Distilled Water	No	No	No	No	No	No	No

Product Code: 4004

Product Description: Sodium Hydroxide, 1.0 N

--- SARA 311/312 ---

----- Australia -----

Hazard Categories

Ingredient	Acute	Chronic	Fire	Pressure	Reactivity	Hazchem Code	Poison Schedule	This MSDS Is WHMIS Compliant
1310-73-2 Sodium Hydroxide	Yes	No	No	No	Yes	2R	S6	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
product 4004 as a whole	Yes	No	No	No	No	2R	S5	Yes

16. Other Information

Prepared By: IP, Regulatory Affairs Department

Revised: 6/12/2006



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

MSDS

Material Safety Data Sheet

1. Product Identification

Product Code:
Product Description:

6364
Tetraphenylborate Rgt. Powder
(New Formulation 1/21/04)

Manufactured By:

LaMotte Company
802 Washington Avenue
Chestertown, MD 21620

2. Composition/Information on Ingredients

Hazardous	Name	CAS #	%	OSHA PEL	ACGIH TLV
Yes	Tetraphenylboron Sodium	143-66-8	10	N/E	N/E
Yes	Sodium Chloride	7647-14-5	90	N/E	N/E

3. Hazards Overview

Primary Route of Entry: Ingestion Inhalation Skin

May be irritating to eyes, nose, skin and respiratory system. May be 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:

4. First Aid Measures

Eye Contact: Flush with water for 15 minutes.

Skin Contact: Flush skin with water. Wash with soap and water.

Ingestion: Rinse out mouth. Drink plenty of water. Consult physician.

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: CO_x, boron oxides

Unusual Fire & Explosion Hazard: Emits toxic fumes under fire conditions.

Product Code: 6364

Product Description: Tetraphenylborate Rgt. Powder
(New Formulation 1/21/04)

6. Accidental Release Measures

Avoid raising or breathing dust. Sweep up carefully. Dissolve in water. Wash down drain with excess water.

7. Handling & Storage

Keep container tightly closed, in cool dry location, away from moisture and light.

8. Exposure Controls/Personal Protection

Ventilation

Use with adequate ventilation.

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygienic Practices: Avoid contact with skin and eyes. Avoid breathing dust.

9. Physical & Chemical Properties

Appearance:	White Crystalline powder	Boiling Point:	N/A
		Melting Point:	>300 deg C
		pH:	9 (0.1g in 10mL water)
Odor:	Faint phenolic	Vapor Density:	N/A
Solubility in Water:	Soluble	Vapor Pressure:	N/A

10. Stability & Reactivity

Stable:	Yes
Conditions to Avoid:	Heat, moisture
Materials to Avoid:	N/A

Hazardous Decomposition Products: CO_x, boron oxides

11. Toxicological Information

Oral rat LD50: 288 mg/kg for sodium tetraphenyl borate. (slight oral toxicity).

Oral rat LD50: 3000 mg/kg for sodium chloride. Investigated as a mutagen, reproductive effector.

Target Organs: N/A

12. Ecological Information

Information not Available

13. Disposal Considerations

Small amount: Dissolve and wash down drain with excess water. Large amount: Sweep or shovel into clean, dry container with lid and send to hazardous waste incinerator. Dispose according to federal, state and local regulations.

14. Transport Information

Not regulated for transport

Product Code: 6364

**Product Description: Tetraphenylborate Rgt. Powder
(New Formulation 1/21/04)**

15. Regulatory Information

Chemical Inventory Status

Ingredient	USA	Europe	---Canada---		Australia	Japan
	TSCA	EC	DSL	NDSL		
Tetraphenylboron Sodium (143-66-8)	Yes	Yes	Yes	No	Yes	Yes
Sodium Chloride (7647-14-5)	Yes	Yes	Yes	No	Yes	Yes

Federal, State, & International Regulations

Ingredient	---SARA 302---		----- SARA 313 -----			RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category	CERCLA		
Tetraphenylboron Sodium (143-66-8)	No	No	No	No	No	No	No
Sodium Chloride (7647-14-5)	No	No	No	No	No	No	No

Ingredient	----- SARA 311/312 -----			----- Australia -----		This MSDS is WHMIS Compliant
	Hazard Categories			Hazchem Code	Poison Schedule	
Tetraphenylboron Sodium (143-66-8)	Acute: Yes	Chronic: No	Fire: No	None allocated	None allocated	
Sodium Chloride (7647-14-5)	Acute: Yes	Chronic: No	Fire: No	None allocated	None allocated	
For product #6364 powder mixture, as a whole	Acute: Yes	Chronic: No	Fire: No	None allocated	None allocated	Yes

16. Other Information

Prepared By: IP

Revised: 3/24/2005