MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA
TELEPHONE # FOR INFORMATION 410 778-3100

MATERIAL SAFETY DATA SHEET

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: **NA-8130**

Product Description: 1:1 Phosphoric/Sulfuric Acid (Nalco FTGR0210.74)

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

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	7664-38-2 Phosphoric Acid	45 w/w	1 mg/cubic m	1 mg/cubic m
Yes	7664-93-9 Sulfuric Acid	55 w/w	1 mg/cubic m	1 mg/cubic m
No	7732-18-5 Water	to 100%		

3. Hazards Overview

Primary Route Of Entry: Skin Ingestion Inhalation

Poison! Danger! Corrosive. Liquid and mist cause severe burns to all body tissue. Inhalation may cause coughing, chest pains, damage to lungs. Ingestion may be fatal. Reacts with water, bases, and other materials.

HMIS Hazard

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

Health: 3 **Flammability:** 0 **Reactivity:** 2

Carcinogenicity: Yes: IARC

Other Health Related Comments:

Cancer Status: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This applies only to mists, not sulfuric acid or its solutions.

4. First Aid Measures

Eye Contact: Immediately flush with water for at least 15 minutes. Call a doctor immediately.

Skin Contact: Immediately flush with water for at least 15 minutes while removing affected clothing. Wash skin with soap and water. Consult physician.

Ingestion: Do not induce vomiting. Rinse mouth, drink 1-2 glasses of water. Call a doctor immediately.

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: Dry chemical or CO2, not water

Special Fire Fighting Procedures: Wear protective equipment and self-contained breathing apparatus.

Unusual Fire & Explosion Hazard: A violent exothermic reaction occurs with water. Reacts with metals to form flammable, explosive hydrogen gas.

6. Accidental Release Measures

Wear eye protection and acid-resistant gloves. Cover spill with sodium bicarbonate or soda ash-slaked lime mixture (sodium carbonate/calcium hydroxide). Mix and carefully add water to form slurry. Scoop up neutralized slurry and wash down drain wit

7. Handling & Storage

Store in cool, dry, storage area away from incompatible items (bases, metal powders, bleach, ammonia, combustibles).

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: Avoid contact with skin and clothing and inhalation of vapor. Wash after handling.

9. Physical & Chemical Properties

Appearance:	Clear Colorless Liquid	**Vapor Density:**	>1 (Air=1)
Solubility In Water:	Soluble	**Vapor Pressure:**	<0.1mm Hg @ 20 deg C
Odor:	None	**Boiling Point:**	>215 deg C
pH:	<1	**Melting Point:**	N/A

10. Stability & Reactivity

Stable:	Yes
Conditions To Avoid:	N/A
Incompatibility (Materials To Avoid):	Metals, strong caustics, sulfides and sulfites. Contact with metals causes formation of flammable and explosive hydrogen gas.
Hazardous Decomposition Products:	SOx; hydrogen gas

11. Toxicological Information

Oral rat LD50: 2140 mg/kg for sulfuric acid; 1530 mg/kg for phosphoric acid. Phosphoric acid investigated as a mutagen.

Target Organs: Corrosive to all body parts Skin

12. Ecological Information

When released into soil, H2SO4 may leach into groundwater. When released into the air, it may be removed from the atmosphere to a degree by rain or snow. This material may be toxic to aquatic life.

13. Disposal Considerations

Add very slowly with stirring to a large volume of soda ash and slaked lime. Pour this neutralized solution down drain with excess water. Dispose according to federal, state and local regulations.

14. Transportation Information

Proper Shipping Name:

DOT: SULFURIC ACID
>51% ACID

IATA: SULPHURIC ACID
>51% ACID

Hazard Class/Div:
DOT: 8
IATA: 8

UN: 1830
Packing Group: II

15. Regulatory Information

Chemical Inventory Status

Hazard	Ingredient	USA TSCA	Europe EC	--- Canada --- DSL	NDSL	Australia	Japan
Yes	7664-38-2 Phosphoric Acid	Yes	Yes	Yes	No	Yes	Yes
Yes	7664-93-9 Sulfuric Acid	Yes	Yes	Yes	No	Yes	Yes
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

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Federal, State, & International Regulations

	--- SARA 302 ---		--------- SARA 313 ---------				
Ingredient	**RQ**	**TPQ**	**Listed**	**Chemical Category**	**CERCLA**	**RCRA 261.33**	**TSCA 8(D)**
7664-38-2 Phosphoric Acid	No	No	No	No	5000	No	No
7664-93-9 Sulfuric Acid	1000	1000	Yes	No	1000	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

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Ingredient	--- SARA 311/312 --- Hazard Categories Acute	Chronic	Fire	Pressure	Reactivity	-------- Australia ------- Hazchem Code	Poison Schedule	This MSDS Is WHMIS Compliant
7664-38-2 Phosphoric Acid	Yes	No	No	No	No	2R	S5	
7664-93-9 Sulfuric Acid	Yes	Yes	No	No	Yes	2P	None Allocated	
7732-18-5 Distilled Water	No	No	No	No	No	None Allocated	None Allocated	
product NA-8130 as a whole	Yes	Yes	No	No	Yes	2P	S5	Yes

16. Other Information

Prepared By: IP, Regulatory Affairs Department

Revised: 4/20/2006