



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: 4458

Product Description: Sulfide Reagent A

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	7664-93-9 Sulfuric Acid	64	1 mg/m ³ (TWA)	0.2 mg/m ³ (T) (TWA)
Yes	536-47-0 N, N-dimethyl-p-phenylenediamine sulfate	<1	N/E	N/E
No	7732-18-5 Water	to 100%	None Established	None Established

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: 4 Flammability: 0 Reactivity: 2

Carcinogenicity: Yes: IARC

Other Health Related Comments:

IARC has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

4. First Aid Measures

Eye Contact: Immediately flush with water for at least 15 minutes while lifting upper and lower eyelids. Call physician immediately!

Skin Contact: Immediately flush with water for at least 15 minutes while removing affected clothing & shoes. Call physician!

Ingestion: Do NOT induce vomiting. Give large quantities of water to drink. Rinse out mouth. Call physician immediately!

Inhalation: Remove to fresh air. Give artificial respiration if breathing has stopped. 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. May react with metals to produce hydrogen gas which can form an explosive mixture with air.

6. Accidental Release Measures

Ventilate area & wear PPE specified in section 8! Neutralize w/alkaline material (sodium bicarb, soda ash/lime) then absorb slurry onto inert material and place into a chemical waste container. Dispose according to Federal, State and Local regs.

7. Handling & Storage

Store container tightly closed in a cool, dry, ventilated area away from incompatible materials, such as cyanides, sulfides, and strong bases.

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Protection When Handling

Eye Protection Gloves Lab Coat, respirator

non-latex gloves

face shield

Work/Hygenic Practices: Avoid contact w/eyes, skin, & clothing. USE RESPIRATOR w/ the appropriate cartridges.

9. Physical & Chemical Properties

Appearance: Clear colorless liquid

Solubility In Water: Soluble

Odor: None

pH: <1

Vapor Density: >1 (Air=1)

Vapor Pressure: 0.3 mm @ 20° C

Boiling Point: >300° C

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat, moisture

Incompatibility (Materials To Avoid): Water, metals, organic or combustible materials, and strong bases.

Hazardous Decomposition Products: SO_x, hydrogen gas

11. Toxicological Information

Oral rat LD50: 2140 mg/kg for H₂SO₄. Conc. H₂SO₄ is a strong dehydrating agent. Reacts w/ organics & may cause ignition. Reaction w/ water is violent, exothermic. With metals, flammable hydrogen gas is released. DPD sulfate is highly toxic, all routes.

Target Organs: Corrosive to all body parts Skin

Pre-Existing Conditions Aggravated By Exposure: Respiratory ailments

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12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Dispose in accordance to federal, state and local regulations. If permitted, dilute in a large volume of water, neutralize with sodium bicarbonate, or soda ash/lime. Slowly release to drain with a copious amount of water.

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	7664-93-9 Sulfuric Acid	Yes	Yes	Yes	No	Yes	Yes
Yes	536-47-0 N,N-dimethyl-p-phenylenediamine sulfate	Yes	Yes	Yes	No	Yes	No
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			
7664-93-9 Sulfuric Acid	1000	1000	Yes	No	1000	No	No
536-47-0 N,N-dimethyl-p-phenylenediamine sulfate	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 ---

Hazard Categories

----- Australia -----

**Hazchem
Code**

**Poison
Schedule**

**This MSDS Is
WHMIS Compliant**

Ingredient

Acute

Chronic

Fire

Pressure

Reactivity

7664-93-9
Sulfuric Acid

Yes

Yes

No

No

Yes

2P

None Allocated

536-47-0
N,N-dimethyl-p-phenylenediamine sulfate

Yes

Yes

No

No

No

None Allocated

None Allocated

7732-18-5
Distilled Water

No

No

No

No

No

None Allocated

None Allocated

**product 4458
as a whole**

Yes

Yes

No

No

Yes

2P

None Allocated

Yes

16. Other Information

Keep out of reach of children.

Prepared By: Regulatory Affairs Department

Revised: 4/2/2009
