

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

Nitrate Test Solution

Code Nr. **5148**

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
Λ Sulfuric Acid	7664-93-9		95	1 mg/cubic m	1 mg/cubic m
Λ Diphenylamine	122-39-4		0.2	10 mg/cubic m	10 mg/cubic m

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Water (moisture)		<4

4. PHYSICAL DATA

<i>Appearance:</i>			
<i>Solubility in Water:</i> Soluble	<i>Odor:</i> None	<i>Boiling Point:</i> 290 deg C	<i>Melt. Point:</i> N/A
<i>Vapor Pressure:</i> <0.3 @20 deg C	<i>Vapor Density:</i> 3.4(Air=1)	<i>pH:</i> <1	

5. FIRE AND EXPLOSION DATA

<i>Flash Point (method used)</i> N/A	<i>Flammable Limit: LEL:</i> N/A	<i>UEL:</i> N/A
<i>Extinguishing Media:</i> Dry chemical or CO2, not water		
<i>HMIS Hazard: Health - 3 Flammability - 0 Reactivity - 2</i> <i>Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least</i>		
<i>Special Fire Fighting Procedures:</i> Wear protective equipment and self-contained breathing apparatus.		
<i>Unusual Fire & Explosion Hazard:</i> A violent exothermic reaction occurs with water. Reacts with metals to produce hydrogen gas which can form an explosive mixture with air.		

6. REACTIVITY DATA

<i>Stability:</i>	<i>Conditions to avoid:</i> Heat, moisture
<input checked="" type="checkbox"/> <i>Stable</i>	<i>Incompatibility (Materials to avoid):</i> Water, metals, organic or combustible materials, and strong bases.
<input type="checkbox"/> <i>Unstable</i>	<i>Hazardous Decomposition Products:</i> SOx, hydrogen gas

7. HEALTH HAZARD DATA

<i>Toxicity:</i> orl rat LD50: 2140 mg/kg for sulfuric acid	
<i>Primary Route of Entry:</i>	<input checked="" type="checkbox"/> <i>Inhalation</i> <input checked="" type="checkbox"/> <i>Skin</i> <i>Carcinogenicity:</i> <input checked="" type="checkbox"/> <i>None</i> <input type="checkbox"/> <i>NTP</i> <input checked="" type="checkbox"/> <i>Ingestion</i> <input type="checkbox"/> <i>N/A</i> <input type="checkbox"/> <i>OSHA</i> <input type="checkbox"/> <i>IARC</i>
<i>Other Health Related Comments:</i> Diphenylamine is a possible mutagen and teratogen (fetal toxicity)	
<i>Target Organs:</i> Corrosive to all body parts,	
<i>Signs and symptoms of exposure:</i> Severe burns. Ingestion may be fatal. Inhalation can cause coughing, chest pains, damage to lungs.	
<i>Medical Condition Aggravated by Exposure:</i> Respiratory ailments	

8. EMERGENCY FIRST AID PROCEDURES

<i>Eye Contact:</i> Immediately flush with water for at least 15 minutes. Consult doctor immediately
<i>Ingestion:</i> Do not induce vomiting. Rinse mouth, drink plenty of water. Call a doctor immediately.
<i>Inhalation:</i> Move to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult give oxygen.
<i>Skin Contact:</i> Immediately flush with water for at least 15 minutes while removing affected clothing and shoes. Consult doctor.

9. SPILL AND DISPOSAL PROCEDURES

<i>Spill and Leak:</i> Wear gloves & eye protection. Cover spill with sodium bicarbonate or soda ash/calcium hydroxide mixture. Mix and carefully add water to form slurry, avoiding heat, spattering, and fumes. Scoop up and wash down drain with excess water.
<i>Disposal:</i> Add slowly with stirring to a large volume of soda ash & calcium hydroxide. Pour neutralized solution down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

<i>In Handling:</i> <input checked="" type="checkbox"/> <i>Gloves</i> <input checked="" type="checkbox"/> <i>Eye Protection</i> <input type="checkbox"/> <i>N/A</i> <input checked="" type="checkbox"/> <i>Other:</i> Lab Coat
<i>Ventilation</i> <input type="checkbox"/> <i>Normal</i> <input checked="" type="checkbox"/> <i>Mechanical</i> <input type="checkbox"/> <i>Respiratory Protection</i>
<i>Work/Hygienic Practices:</i> Avoid contact with skin and clothing. Do not breathe vapor.

11. SPECIAL PRECAUTIONS

Store away from alkali, metals, & other incompatible items.

DATE: 5/25/03 The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.

Λ This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.