

# MATERIAL SAFETY DATA SHEET

1 OF 2

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## Section I: IDENTIFICATION

*Product Name:* **Robert Reagent**

*Date Prepared:* 04/23/02 *Date Revised\*:* 11/01/06

*Item Number(s):* 400360

*Emergency Phone, Infotrac:* 800-535-5053

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## Section II: COMPOSITION

<i>Hazardous Component(s):</i>	<i>CAS Number</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>	<i>NFPA</i>
Nitric Acid ~17%	7697-37-2	2/4	<i>Health</i> 3
Magnesium Sulfate	10034-99-8		<i>Flammability</i> 0
			<i>Reactivity</i> 0

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## Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~ 220°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~1.1
<i>Vapor Pressure mm Hg/20 °C:</i>	NE	<i>Percent Volatile by Vol:</i>	NA
<i>Vapor Density (Air 1:1):</i>	NE	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Clear liquid, bitter odor

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## Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* Non-Flammable *Flammable Limits:* LEL: NA UEL: NA

*Extinguishing Media:* Water spray, dry chemical, CO<sub>2</sub> and foam

*Special Fire Fighting Procedures:* Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

*Unusual Fire & Explosion Hazards:* Hydrogen chloride gas

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## Section V: REACTIVITY

*Stability:* Stable *Material to Avoid:* Strong bases, dissolves most metals

*Hazardous Decomposition or Byproducts:* Oxides of nitrogen, sulfates

*Hazardous Polymerization:* Does not occur *Conditions to Avoid:* Strong bases

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## Section VI: HEALTH HAZARDS

*Routes of Entry:* Inhalation, Skin and Ingestion *Target Organs:* Respiratory system

*Acute/Chronic:* Corrosive burns may result from the inhalation of fumes.

*Carcinogenicity:* Not classified as a human carcinogen.

*Signs/Symptoms of Exposure:* Skin, eyes and respiratory burns/ulceration of membranes and tissue.

## MATERIAL SAFETY DATA SHEET

Robert's Reagent, 2 OF 2

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### Section VI: HEALTH HAZARDS

*Emergency First Aid:*

**Skin:** Remove contaminated clothing. Wash affected area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.

**Ingestion:** Rinse mouth with water, provided person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### Section VII: SAFE HANDLING

*Chemical Release or Spill:* Wear full protective clothing especially NIOSH approved respirator. Isolate the spill area with sand, or other absorbent material. Neutralize with sodium carbonate. Place all contaminated material in a closed container for proper disposal.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Store in acid safety cabinet. Avoid excessive heat.

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### Section VIII: CONTROL MEASURES

*Respiratory Protection:* NIOSH approved respirator required.

*Ventilation:* Exhaust hood system for corrosives

*Protective Gloves:* Chemical resistant      *Eye Protection:* Safety glasses

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. HealthLink shall not be held liable for any damage resulting from handling or contact with this product.

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\*Change due to customer request. No substantial changes since prepared date.

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