

MSDS - Material Safety Data Sheet

Product Name: Atomic Absorption Analysis Kit

MSDS No.: AAA100

I. Basic Information:

Manufacturer: Sirchie Finger Print Laboratories
Address: 100 Hunter Place
City, ST Zip: Youngsville, NC 27596
Country: USA

Contact: Tech Support
Information Telephone Number: 919-554-2244
Emergency Contact: ChemTrec
Emergency Telephone Number: 800-424-9300
Emergency Restrictions:

Product Name: Atomic Absorption Analysis Kit
MSDS No.: AAA100

Issue Date: 12/29/2011
Supersedes Date: Not Available

II. Hazards Identification:

EMERGENCY OVERVIEW

Corrosive. May cause respiratory and digestive tract burns. May cause skin and eye burns.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Route(s) of Entry:

Inhalation, ingestion, skin, eyes

Health Hazards (Acute and Chronic):

Acute: Severe eye injury, skin burns, gastrointestinal burns

Chronic: Chronic bronchitis, erosion of teeth

Signs and Symptoms:

Inhalation: Burning pain in the nose and throat, coughing, wheezing, shortness of breath, pulmonary edema. Effects may be delayed.

Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory diseases

Other Health Warnings:

Not Available

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Nitric acid	7697372	7	
Water (Distilled)	7732185	93	

IV. First Aid Measures:

Emergency and First Aid Procedures:

MSDS - Material Safety Data Sheet

Product Name: Atomic Absorption Analysis Kit

MSDS No.: AAA100

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (To be administered by qualified medical personnel only!) Get medical attention.

Ingestion: DO NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Get medical attention immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do not allow victim to rub or keep eyes closed. Get medical aid immediately.

Note to Physicians:

Not Available

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Use proper extinguishing media suitable for surrounding fire.

Unsuitable Extinguishing Media:

Wear self-contained breathing apparatus and protective clothing. Water may be used to cool fire-exposed containers.

Products of Combustion:

Not Available

Protection of Firefighters:

Wear normal turnout gear.

VI. Accidental Release Measures:

Personal Precautions:

Wear vapor respirator, safety goggles, and rubber gloves. Remove sources of ignition (i.e. open flames, sparks).

Environmental Precautions:

Prevent from entering sewers or waterways. May be harmful to some aquatic life.

Methods for Containment:

Neutralize spill with sodium bicarbonate. Dike if able to do so safely.

Methods for Cleanup:

Soak up with inert absorbent material (dry sand or earth recommended; do not use flammable substances such as sawdust).

Other Information:

Dispose according to local, state, and federal regulations.

VII. Handling and Storage:

Handling Precautions:

Keep in tightly closed container. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Do not ingest or inhale. Wash thoroughly after handling.

Storage Precautions:

Keep cool and dry. Avoid incompatible materials.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Water (Distilled)	None	None	212 F
Nitric acid	2 ppm	2 ppm	187 F

MSDS - Material Safety Data Sheet

Product Name: Atomic Absorption Analysis Kit

MSDS No.: AAA100

Engineering Controls:

Use only in well-ventilated areas.

Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing

IX. Physical and Chemical Properties:

Boiling Point: ~212 F

Boiling Range: Not Available

Solubility In Water: Soluble

Flash Point: NE

Odor Threshold: Not Available

Vapor Density (AIR = 1): NE

pH Range: Not Available

Decomposition Temp: Not Available

Lower Explosive Limit: NE

Specific Gravity (H2O = 1): Not Available

Other Information: Not Available

Melting Point: ~32 F

Freezing Point: Not Available

Evaporation Rate (Butyl Acetate = 1): NE

Flash Point Method: Not Available

Appearance and Odor: Clear liquid; acrid odor

Vapor Pressure (mm Hg.): NE

Partition Coefficient: Not Available

Auto-Ignition Temp: Not Available

Upper Explosive Limit: NE

X. Stability and Reactivity:

Stability:

Decomposes when in contact with air, light, or organic matter.

Conditions to Avoid:

Excessive heat.

Incompatible Materials:

Ignition sources (heat, open flame, spark), moisture, reducing agents, air, light, organic matter, combustibles. Nitric acid reacts with over 150 chemical combinations. Refer to the NFPA Fire Protection Guide for nitric acid incompatibility specifics.

Hazardous Decomposition Products:

Nitrogen oxides

Possibility of Hazardous Reactions:

Has not been reported.

XI. Toxicological Information:

Safe when used for its intended purpose. Not for human consumption.

XII. Ecological Information:

Prevent from entering sewers or waterways. May be harmful to some aquatic life.

XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations pursuant to 40 CFR part 261 of the Resource Conservation & Recovery Act (RCRA).

XIV. Transport Information:

Shipping Name: Not Available

MSDS - Material Safety Data Sheet

Product Name: Atomic Absorption Analysis Kit

MSDS No.: AAA100

DOT Hazard Class: Not Available

DOT Subsidiary Hazard Class: Not Available

UN/NA#: Not Available

Packing Group: Not Available

Transportation Information:

Keep in tightly closed container. Keep cool and dry. Avoid incompatible materials. Avoid contact with skin, eyes, and clothing. Do not ingest or inhale. Wash thoroughly after handling.

IATA

Shipping name: Nitric acid
 Hazard class: 8
 UN no.: 2031
 Packing group: II
 Corrosive!

XV. Regulatory Information:

All ingredients are listed on the TSCA inventory.
 Nitric acid is listed as a Hazardous Substance under the Clean Water Act.
 Nitric acid is considered highly hazardous by OSHA.
 Nitric acid is listed on the EPA Extremely Hazardous Substances (EHS) list.
 This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

XVI. Other Information:

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture
Hazard Category: Acute Chronic Fire Reactive
 Pressure



Additional Manufacturer Warnings:

Using this product under normal, properly instructed procedures should not be hazardous.

2	Health
0	Flammability
1	Physical Hazard
H	Pers. Protection

Additional Product Information:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.