

MSDS

ARSENIC AA, ICP, ICP - MS Standards, 1000 ppm As in dilute Nitric Acid

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: MSAS1KN, PAS1KN, S0571000, S0573000	
Product Identity: ARSENIC AA, ICP, ICP - MS Standards, 1000 ppm As in dilute Nitric Acid	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 1/27/05	Revision: 2 Last Revised: 04/18/2006 Date Printed: 08/31/2006 12:40:28 pm

Section 2: Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Arsenic	7440-38-2	0.1	Not Available	Not Available
			0.01 mg/m3	0.5 mg/m3
Nitric Acid	7697-37-2	2.5 - 3.5	2 ppm	2 ppm
			5.2 mg/m3	5 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available

Section 3: Hazard Identification

Emergency Overview: Caution! Mildly corrosive liquid. Contains low level of a known carcinogen. Avoid contact with skin, eyes, and clothing. If swallowed, dilute with water and call a physician. Wash areas of contact with plenty of water.

Target Organs: eyes, skin, respiratory system, teeth.

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: May cause mild irritation of the nose, throat, and respiratory tract. Prolonged exposure to higher concentration of vapors of Nitric Acid may lead to pneumonia or pulmonary edema.

Skin Contact: May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

Ingestion: May cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract.

Chronic Effects/Carcinogenicity: None

IARC - Arsenic is carcinogenic to humans.

NTP - Arsenic - Substances or groups of substances, and medical treatments that are known to be carcinogenic.

OSHA - No.

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Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Nitric Acid. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Arsenic.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Nitric Acid. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Arsenic.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

LFL: Not Available.

Extinguishing Media: Use water or water spray.

Method Used: Not Available.

UFL: Not Available.

Fire & Explosion Hazards: Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Can react with metals to release flammable hydrogen gas. May react explosively with combustible organic or readily oxidizable materials such as: alcohols, turpentine, charcoal, organic refuse, metal powder, hydrogen sulfide, etc.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid

Odor: odorless

Solubility in Water: Infinite

Specific Gravity: Approximately 1.0 - 1.02

pH: acidic

Boiling Point(°C): Approximately 100

Melting Point(°C): Approximately 0

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Strong bases, metallic powders, Carbides, Hydrogen Sulfide, Turpentine and combustible organics.

Hazardous Decomposition Products: Emits highly toxic fumes of Nitrogen Oxides and Hydrogen Nitrate when heated to decomposition.

Hazardous Polymerization: Will not occur.

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Section 11. Toxicological Information

LDLo, Oral, Human: 430 mg/kg (Nitric Acid), details of toxic effects not reported other than lethal dose value. LD50, Oral, Rat: 763 mg/kg (Arsenic), behavioral and gastrointestinal effects noted. Arsenic is investigated as a tumorigen.

Section 12. Ecological Information

Ecotoxicological Information: This material is expected to be slightly toxic to aquatic life.

Chemical Fate Information: This material may bioaccumulate to some extent.

Section 13. Disposal Considerations

Contains minute amount of a RCRA metals. Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in a RCRA approved hazardous waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: Acute, Chronic: Yes Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: Contains an ingredient (Arsenic) known to the state of California to cause cancer.

Pennsylvania: Nitric Acid is listed as an Environmental Hazard on the state's Hazardous Substances List. Arsenic

RCRA Status: D004

CERCLA Reportable Quantity: Nitric Acid - 1,000 pounds. Arsenic - 1 pounds.

WHMIS: Not Applicable.

Section 16. Other Information



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For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact (24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

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NFPA Ratings:

Health: 1	Flammability: 0	Reactivity: 0	Special Notice Key:None
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HMIS Ratings:

Health: 1*	Flammability: 0	Reactivity: 0	Protective Equipment:B (Protective Eyewear, Gloves)
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Rev 1, 03-01-2005: revised title.

Rev 2, 04-18-2006: (Section 1) removed catalog number AAS1KN.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.