

JUN 22 2009

**Material Safety Data Sheet**

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Product #: IAA-015

Last Update: 11/14/2006

**Section I Product Identification**

Name: Phosphorus EnviroConcentrate; Phosphorus Standard

Matrix : water with dilute nitric acid

**Section II Composition / Information on Ingredients**

Component	CAS#	% by Wt.	LD50	OSHA PEL	ACGIH TLV	RTECS #	Codes
water	007732-18-5	97	>90 mL/kg oral rat	N/A	N/A	ZC0110000	
nitric acid	007697-37-2	2	N/A	5 mg/m3	5.2 mg/m3	QU5775000	G
phosphorus, soluble compounds as P	007722-76-1	1	N/A	N/A	N/A	N/A	

Codes: A-OSHA regulated carcinogen; B-IARC Group 1 carcinogen; C-IARC Group 2A carcinogen; D-IARC Group 2B carcinogen;  
E-NTP Group 1 carcinogen; F-NTP Group 2 carcinogen; G-SARA Title III compound; H-California Proposition 65 compound.

**Section III Hazards Identification**

Irritant

All chemicals should be considered hazardous - direct physical contact should be avoided.

**Section IV First Aid Measures**

Inhalation: If inhaled, remove to fresh air. Give oxygen, if necessary. Contact a physician.

Skin: In case of skin contact, flush with copious amounts of water. Remove contaminated clothing.

Contact: Contact a physician.

Eye Contact: In case of eye contact, flush with copious amounts of water, lifting eyelids occasionally. Contact a physician.

Ingestion: If ingested, contact poison center immediately for recommended procedure. Contact a physician.

**Section V Fire Fighting Measures**

Fire and Explosion Hazard Data for Matrix

Fire Hazard: non-combustible

Extinguishing Media: Carbon dioxide, dry chemical powder, or water spray.

**Section VI Accidental Release Measures**

Ventilate area of the leak or spill. Wear appropriate personal protective equipment as specified in Section VIII. A leaking bottle, vial, or ampule may be placed in a plastic bag, and normal disposal procedures followed. Take up spilled material with sand or other non-combustible absorbant material, and place in an appropriate container for later disposal. Flush spill area with water.

**Section VII Handling and Storage**

May be stored at room temperature

Keep in a tightly closed container, and store in a corrosion proof area.

This product should only be used by persons trained in the safe handling of hazardous chemicals.

**Section VIII Exposure Controls / Personal Protection**

Ensure that there is adequate ventilation to prevent airborne levels from exceeding recommended exposure limits (see Section II). Use appropriate MSHA/NIOSH approved safety equipment. Wear chemical goggles, face shield, gloves, and chemical resistant clothing, such as a laboratory coat and/or a rubber apron, to prevent contact with eyes, skin, and clothing.

**Section IX Physical and Chemical Properties**

## Physical Data for Matrix

Melting Pt.: 0°C

Vapor Pressure: N/A

Appearance: colorless liquid

Auto-Ignition Temperature: N/A

Boiling Pt.: 100°C

Vapor Density: N/A

Odor: none

LEL: N/A

Density: 1

Water Solubility: soluble

Flash Point: none

UEL: N/A

**Section X Stability and Reactivity**

## Reactivity Data for Matrix

Stability: stable

Incompatibilities:

organic materials

str. reducing agents

alkalies

antimony salts

Hazardous Decomposition Products: NO<sub>2</sub>, NO<sub>3</sub>

Hazardous Effects of Polymerization: none

**Section XI Toxicological Information**

See Section II for specific toxicological information for the ingredients of this product.

**Section XII Ecological Information**

No information is available.

**Section XIII Disposal Considerations**

Recycle, if possible. Any material which cannot be saved for recovery or recycling should be disposed of at an appropriate and approved waste disposal facility. Processing, use, and/or contamination of this product may change waste management requirements. Observe all applicable federal, state, and local environmental regulations concerning disposal.

**Section XIV Transport Information**

Shipment Type: Dangerous Goods in Excepted Quantity (US DOT Small Quantity Exemption)

UN Number: UN3264

Shipping Class: 8

Packing Group: N/A

**Section XV Regulatory Information**

## EU Directives Classification

R: 34

Risk Statements: Causes burns.

S: 23-26-36-45

Safety Statements: Do not breathe gas/fumes/vapour/spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Section XVI Other Information**

The above information is believed to be correct, but does not purport to be all-inclusive. This data should be used only as a guide in handling this material. ULTRA Scientific, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.