Material Safety Data Sheet

ULTRA Scientific · 250 Smith Street · North Kingstown, RI, USA 02852 · 401-294-9400
Product #: IAA-015

Section I  Product Identification
Name: Phosphorus EnviroConcentrate; Phosphorus Standard
Matrix: water with dilute nitric acid

Section II  Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>% by Wt</th>
<th>LD50</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>RTECS #</th>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>007732-18-5</td>
<td>97</td>
<td>&gt;90 mL/kg oral rat</td>
<td>N/A</td>
<td>N/A</td>
<td>ZC0110000</td>
<td></td>
</tr>
<tr>
<td>nitric acid</td>
<td>007697-37-2</td>
<td>2</td>
<td>N/A</td>
<td>5 mg/m3</td>
<td>5.2 mg/m3</td>
<td>QU5775000</td>
<td>G</td>
</tr>
<tr>
<td>phosphorus, soluble compounds as P</td>
<td>007722-75-1</td>
<td>1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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


7/31/2008
Section IX  Physical and Chemical Properties
Physical Data for Matrix
Melting Pt.: 0°C  Boiling Pt.: 100°C
Vapor Pressure: N/A  Vapor Density: N/A
Appearance: colorless liquid  Odor: none
Auto-Ignition Temperature: N/A  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
Hazardous Decomposition Products: NO2, NO3
Hazardous Effects of Polymerization: none
str. reducing agents
alkalies
antimony salts

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.

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