IDENTITY (As Used on Label and List)
SELENIUM PREMIX

Section I
Manufacturer's Name
ANIMAL SCIENCE PRODUCTS

Emergency Telephone Number
1-800-424-9300 CHEMTREC

Address (Number, Street, City, and ZIP Code)
FM 1275 SOUTH, NACOGDOCHES, TX, 75963-1408

Telephone Number for Information
1-800-657-2324 ANIMAL SCIENCE PRODUCTS

Date Prepared
06/26/96

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information
Hazardous Components (Specific Chemical Identity; Common Name(s) OSHA PEL ACGIH TLV Other limits % (optional)
Chemical Family: Elemental selenium

Recommended Not Applicable for hazardous ingredients

Section III - Physical/Chemical Characteristics
Boiling Point: NA Specific Gravity (H₂O = 1) 4.82
Vapor Pressure (mm Hg.) At 20 DEG. C: 1.1*10^-10 Melting Point 50-60 deg. C (softens)
Vapor Density (AIR = 1) 22 Evaporation Rate (Butyl Acetate = 1) NA

Solubility in water: %BY WT. AT 20 deg. C: Insoluble Soluble in: Carbon disulfide, methylene iodide, quinoline

Appearance and Odor: Dark red-to-black powder; odorless

Section IV - Fire and Explosion Hazard Data
Materials burn in air:

Extinguishing Media:
Water Spray, dry chemical, carbon dioxide or foam, as appropriate for surrounding fire and materials.

Special Fire Fighting Procedures:
Evacuate personnel to an area of upwind direction and remove unneeded materials; keep fire-exposed containers cool with water spray, and provide fire fighters with self-contained breathing equipment.

Unusual Fire Fighting and Explosion Hazards:
NA
Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Stable</th>
<th>Conditions to Avoid: Exposure to air (cause burning, with conversion to the dioxide and emission of rancid color).</th>
</tr>
</thead>
</table>

Compatibility (Materials to Avoid):

Hazardous Decomposition or Byproducts:

<table>
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<tr>
<th>Hazardous Polymerization</th>
<th>May Occur</th>
<th>Materials to Avoid: Water, hydrogen (except iodine); hot aqueous solutions of silver and gold salts; many metals; nitric and sulfuric acids (cause oxidation to the acid).</th>
</tr>
</thead>
</table>

Will Not Occur Will not occur.

Section VI - Health Hazard Data

Route(s) of Entry: Eye damage, skin burns, and dermatitis, discoloration of stains and nails.

Health Hazards (Acute and Chronic):
Serious irritation of respiratory tract. Pallor, nervousness, perspiring, GI distress, dermatitis, dizziness, headache, anemia, weight loss.

EXPERIMENTAL: LCLO (RAT, IHL): 33mg/kg/18H

LD50 (RAT, IV): 6mg/kg

LD50 (GPG, SC): 19mg/kg

Emergency and First Aid Procedures:

Eye contact: Irrigate surfaces with water for 20 minutes.

Skin Contact: Call physician at once. Wash contaminated area with soap and water for 20 minutes.

Inhalation: Move individual to fresh air.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled:
Scoop up all spills and transfer to labeled containers.

Waste Disposal Method:
Transport contained waste to an approved landfill.

Precautions to Be Taken in Handling and Storing:
Store both full and empty drums at room temperature in a dry place protected against the possibility of ground-water leakage. Keep drums tightly closed.

Other Precautions:
Conduct annual physical examinations which will include laboratory tests for liver and kidney functions [CESA via ADC 2/8/84. It would be prudent to consider this substance a suspect carcinogen of liver and thyroid.

Section VIII - Control Measures

Respiratory Protection (Specify Type):

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust: Preferred</th>
<th>Special: NA</th>
</tr>
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<tbody>
<tr>
<td>Respiratory: NIOSH-approved mechanical filter respirator.</td>
<td>Other:</td>
<td></td>
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</tbody>
</table>

Protective Gloves: Neoprene
Eye Protection: Full face shield with safety goggles.

Other Clothing or Equipment:
Full body covering; replace rubber gloves after each wearing because of saturation of selenium.

Work/Hygienic Practices: NA