

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910:1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List) SELENIUM PREMIX	The information contained herein is based on data Considered accurate: however, no warranty either expressed or implied of any nature with respect to the product or the data is made.
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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
P.O. DRAWER 631408	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 Recommended	% (optional)
Not Applicable for hazardous ingredients Chemical Family: Elemental selenium				.02%-1.0%

Section III - Physical/Chemical Characteristics

Boiling Point: NA	Specific Gravity (H ² O = 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			
Stability		Stable	Conditions to Avoid: Exposure to air (cause burning, with conversion to the dioxide and emission of rancid color).
Compatibility (Materials to Avoid):			
Hazardous Decomposition or Byproducts:			
Hazardous Polymerization	May Occur		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).
	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):			
Ventilation	Local Exhaust: Preferred		Special: NA
	Respiratory : NIOSH-approved mechanical filter respirator.		Other:
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			