

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) VITAMIN D3	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 06/28/96
	Signature of Preparer (optional)

Section II-Hazardous Ingredients/Identity Information

Ingredient	CAS#	Percent
Cholecalciferol	67-97-0	97
Vitamin D, I.U./LB 13,600,000 (I.U./GRAM) (30,000)		
Also contains: Rice hulls, calcium carbonate, with D-activated animal sterol (A SOURCE OF VITAMIN D3), and mineral oil.		

Section III - Physical/Chemical Characteristics

Boiling Point: NA		Specific Gravity (H ² O = 1)	NA
Vapor Pressure (mm Hg.) 0		Melting Point	82-87 deg. C
Vapor Density (AIR = 1) NA		Evaporation Rate (Butyl Acetate = 1)	NA

Solubility in water:
 Insoluble
 Solubility other:
 Methanol, ethanol, acetone, ethylacetate, hexane, chloroform, methyl chloride, dimethylformamide, cyclohexane, tetrahydrofuran, methylethylketone, isopropanol, cyclohexanone.

Appearance and Odor: White crystalline powder

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used):NA	Flammable Limits:	LEL NA	UEL NA
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Extinguishing Media:
 Water, carbon dioxide, dry chemical, foam..

Special Fire Fighting Procedures:
 Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.

Unusual Fire and Explosion Hazard Dust may present an explosivity hazard.

Section V - Reactivity Data			
Stability			
	Stable	Normally Stable but may become unstable at elevated temperatures or reacts with water, releasing some energy but not violently.	Conditions to avoid: Temperatures > 100 deg. C, light, air, humidity, dust accumulation, airborne dust, sources of ignition.
Incompatibility (Materials to Avoid):Oxidizing agents, acid chlorides, acid anhydrides.			
Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide. On combustion, oxides of carbon, sulfur and nitrogen are emitted.			
Hazardous Polymerization	May Occur		Conditions to Avoid: NA
	Will Not Occur	Will not occur.	
Section VI - Health Hazard Data			
Route(s) of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes Eyes? Yes			
Oral LD50 mouse: 42.0 mg/kg			
Acute Effects:			
May cause gastrointestinal effects such as nausea, vomiting, diarrhea, constipation, cramps, and loss of appetite.			
May cause renal system effects such as urine retention, increase or decrease in urine production, painful urination, and presence of blood in urine.			
Skin: May cause skin irritation			
Ingestion: May be fatal if swallowed.			
Chronic Effects: GENERAL:			
May increase blood calcium levels. May cause calcification of soft tissue. May cause decalcification of bony tissue.			
First Aid Procedures:			
Eyes: Immediately flush eyes with plenty of water. If irritation occurs or persists, get medical attention.			
Skin: Remove contaminated clothing and shoes. Wash skin with soap and plenty of water. If irritation occurs or persists, get medical attention. Wash clothing and shoes before reuse.			
Inhalation: Remove to fresh air. Get medical attention. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen by qualified personnel.			
Ingestion: Get medical attention immediately. DO NOT INDUCE VOMITING unless directed by medical personnel. NEVER give anything by mouth to an unconscious person.			
Section VII - Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material is Released or Spilled:			
Evacuate the area - do not re-enter unless protected by a self-contained breathing apparatus and other personal protective equipment and clothing. Shut off the source of the spill or leak if it is safe to do so. Do not allow the material to enter the sewers or waterways. Scoop or shovel spilled material into a suitable labeled open head drum. Secure the drum cover and move the container to a safe holding area. Clean spill area thoroughly.			
TREATMENT AND DISPOSAL:			
Dispose of in accordance with recommendations. Decontaminate or dispose of all protective clothing and equipment.			
HANDLING AND STORAGE PRECAUTIONS:			
Do not generate dust or expose to ignition sources. Ground all transfer equipment. Milling/Mixing/drying should be performed in devices equipped with explosion relief or suppression systems or under inert conditions. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. When handling, use proper personal protective equipment specified. Wash thoroughly after handling. Keep container tightly closed when not in use. Store out of direct sunlight in a cool, well-ventilated area. Store under inert atmosphere.			
Section VIII - Control Measures: Respiratory Protection-Types of Respirators: Negative Pressure Air Purifying, Half Face, Toxic Dust/Mist/Fume High Efficiency Filter.			
Protective Glove: Any plastic or rubber gloves. EYE PROTECTION: Safety glasses required.			
Other Clothing or Equipment:			
Wear full protective clothing including head and feet covering.			