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SECTION 1: IDENTIFICATION

Effective Date: 10/30/96

Product Name: VITAMIN A & D3 BLEND 10:1

Chemical Formula: retinol palmitate (vitamin A): 55-65%; corn oil: 30-4-%; cholecalciferol (vitamin D3) < 0.5%

CAS No.: retinol palmitate (vitamin A): 79-81-2; corn oil: 8001-30-7; cholecalciferol (vitamin D3): 67-97-0

SECTION 2: HAZARDOUS INGREDIENTS:

Retinol palmitate and cholecalciferol may cause birth defects based on information on related materials and animal data. Material may affect developing fetus, pregnant and nursing women should exercise caution regarding exposure.

Acute Effects: Material has not been tested as a whole, so information described below is based on one or more of its ingredients. May cause skin reactions such as cracks in lips and around mouth, dry skin, skin peeling, itching and redness of the skin. May cause gastrointestinal effects such as nausea, vomiting, diarrhea, constipation, cramps, and loss of appetite. May cause central nervous systems effects such as headache, dizziness, drowsiness, fatigue, and lack of muscular coordination. May cause hepatic system effects. Signs and symptoms may include elevation of liver enzyme levels and jaundice. May cause renal system effects such as urine retention, increase or decrease in urine production, painful urination, and presence of blood in urine.

Individuals on digitalis therapy should avoid exposure to this material.

May aggravate liver and kidney conditions, and skin diseases and disorders.

SECTION 3: PHYSICAL DATA

Physical Data:

Appearance and Odor: liquid, greenish yellow to brownish yellow, may crystallize, characteristic odor.

Shelf life: 24 months

Sensitivity: to heat, humidity, light, air

SECTION 4: FIRE AND EXPLOSION DATA

Fire and Explosion Information:

Flash point: n/a

Flammable limit: n/a

Extinguishing Media: water, carbon dioxide, dry chemical, foam

Fire Fighting Procedures: Wear NIOSH/MSHA approved positive pressure, self contained breathing apparatus and full protective turn out gear. Use caution in approaching fire. Use water to fire exposed containers cool.

keep

Unusual Fire and Explosion Hazards: Spontaneous ignition may occur when exposed to air and in contact with other materials such as cloth, paper, insulation.

wood,

SECTION 5: REACTIVITY DATA

Conditions to Avoid:

heat, humidity, light, air

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV):
Permissible Exposure Limit: n/a
Toxicity:

n/a

Oral LD50 (rat):

Vitamin A: 7910 mg/kg at 10 days = practically non-toxic orally; Vitamin D3: 42 mg/kg = highly toxic

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: Review sections 2 & 10. Shut off source of spill or leak if safe to do so. Absorb small spills with absorbent material. Dike large spills and pump into metal drums or absorb with absorbent material. Put saturated absorbent material into suitable labeled open head drum, Keep under inert atmosphere. Secure drum cover and move container to safe holding area. Clean spill area thoroughly.

Disposal: Dispose of protective clothing with spilled material. Material is suitable for incineration. Use, processing, alteration or contamination may affect disposal recommendations. State, local or site restrictions affecting proper disposal options may vary.

SECTION 8: FIRST AID PROCEDURES

First Aid:

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. If discomfort occurs or persists, get medical attention.

Ingestion: If large quantities of this material are swallowed, get medical attention immediately. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth

SECTION 9: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Other Precautions: Store at 8-15°C. Keep away from heat, sparks, and flame. Keep away from contact with clothing and other combustible materials. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. When handling, use proper personal protective equipment. 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 in light resistant containers.

SECTION 10: SPECIAL PROTECTION INFORMATION

Ventilation: General room ventilation is adequate unless the process generates mist or vapor.

Eye Protection: splash goggles

Protective Gloves: rubber or plastic

Respiratory Protection: not necessary under normal conditions unless ventilation is lacking

Other Protective Gear: lab coat

SECTION 11: TRANSPORT INFORMATION

DOT classification: not regulated

DOT pictograms: