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SECTION 1: IDENTIFICATION

Effective Date: 6/12/95

Product Name: Vitamin A Palmitate oil

Common Name: 3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4,6,8-nonatetraen-1-ol palmitate; retinol palmitate; retinyl palmitate

CAS No.: 79-81-2

SECTION 2: HAZARDOUS INGREDIENTS:

May cause birth defects based on animal data. Since this material may affect the developing fetus, females planning to have a child and pregnant women should exercise caution regarding exposure. It is also advisable for nursing mothers to exercise caution regarding exposure. 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 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.

SECTION 3: PHYSICAL DATA

Physical Data:

Appearance and Odor:	liquid, clear, light yellow to amber, slight characteristic odor and a bland, oily taste.
Boiling point:(760 mmHg)	n/a
Vapor Pressure (mmHg):	n/a
Specific Gravity (Water = 1):	n/a
Solubility in water:(by weight)	soluble in hydrocarbons and chlorinated hydrocarbons; miscible with edible oils and fats; slightly soluble in alcohol; insoluble in water
Melting Point:	28-29°C

SECTION 4: FIRE AND EXPLOSION DATA

Fire and Explosion Information:

Flash point:	190°C
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.
Unusual Fire and Explosion Hazards:	Spontaneous ignition may occur when exposed to air and in contact with other materials such as cloth, paper, insulation
Auto Ignition Temperature:	280°C

SECTION 5: REACTIVITY DATA

Reactivity Data:

Stable X Unstable

May become unstable at elevated temperatures or reacts with water, releasing some energy but not violently

Conditions to Avoid: air
Incompatibilities: air, oxygen, oxidizing agents, acids, bases
Hazardous Decomposition or byproducts: carbon monoxide and carbon dioxide
Hazardous Polymerization: will not occur

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV):

Exposure Limit:

0.0500 mg/m³ time weighted average

Toxicity:

Oral LD50 (rat): 7910 mg/kg body weight at 10 days which classifies this material as practically non-toxic orally, under study conditions utilized

Teratogenicity Oral: Was found to be teratogenic in mice, rats and rabbits when administered orally during gestation at doses up to 50 mg/kg/day, 90 mg/kg/day and 5 mg/kg/day, respectively, under study conditions utilized

SECTION 7: FIRST AID: SPILLAGE AND DISPOSAL 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. 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 to an unconscious person.

Spillage: Review personal protection info. Shut off source of spill or leak if it is safe to do so. Review which materials are incompatible with this material. Absorb small spills with absorbent material. Dike large spills and pump into metal drums or absorb with absorbent material. Put saturated absorbent material into a suitable labeled open head drum. Secure drum cover and move container thoroughly.

to a safe holding area. Clean spill area

Disposal: Dispose of protective clothing with spilled material. Material is suitable for incineration. Recommendations are based on product as shipped. Use, processing, alteration or disposal recommendations. State, local or site restrictions affecting available proper disposal options may vary.

SECTION 8: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Store at 8-15°C. Shelf life is 12 months. Special sensitivity to heat, humidity, and light. 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. 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 9: SPECIAL PROTECTION INFORMATION

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

Eye Protection: safety goggles

Protective Gloves: plastic or rubber

Respiratory Protection: None under normal conditions; negative pressure air purifying, toxic dust/mist/fume high efficiency filter, half face

Other Protective Gear: Protective clothing

SECTION 10: TRANSPORT INFORMATION

DOT classification: not DOT regulated

DOT pictograms: none

California EPA regulation: known to cause reproductive toxicity