

Material Data Safety 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 A Palmitate 250,000 IU/g F240114

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name: WATSON FOODS CO., INC.	Emergency Telephone Number (203) 932-3000
Address (Number, Street, City, State, and ZIP Code) 301 Heffernan Drive	Telephone Number for Information (203) 932-3000
W. Haven, CT 06516	Date Prepared: June 14, 2000
	Signature of Preparer (Optional) MB

Section II - Hazardous Ingredients/Identity Information

Hazardous Components [Specific Chemical Identity, Common Name(s)]	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
3.7 - Dimethyl-9-(2,6,6 Trimethyl-1-cyclohexen-1-yl) -2,4,6,8-nonatetraen-1-yl Palmitate		NOT-ESTABLISHED		

Section III - Physical/Chemical Characteristics

Boiling Point: UNKNOWN	Specific Gravity (H ₂ O = 1): UNKNOWN
Vapor Pressure (mm Hg.): UNKNOWN	Melting Point: 82-84 ° F
Vapor Density (AIR = 1): UNKNOWN	Evaporation Rate (Butyl Acetate = 1): UNKNOWN
Solubility in Water: Dispersible in water	
Appearance and Odor: Light yellow powder, slight odor.	

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): greater than 190°C	Flammable Limits: UNKNOWN	LEL	UEL
Extinguishing Media: Water spray, dry chemical, carbon dioxide or foam.			
Special Fire Fighting Procedures: Evacuate personnel to safe area. Keep fire exposed containers cool with water spray, and provide fire fighters with self-contained breathing equipment.			

Unusual Fire and Explosion Hazards: Material saturated with retinyl palmitate may ignite spontaneously under oxidizing conditions.

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid: moisture, heat, ultraviolet radiation
	Stable	X	

Incompatibility (Materials to Avoid): **Oxidants, concentrated HCL**

Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide

Hazardous Polymerization	May Occur		Conditions to Avoid: None known
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? **X** Skin? Ingestion? **X**

Health Hazards (*Acute and Chronic*): **May cause skin irritation, intake of Vitamin A palmitate for long periods of time results in a toxic syndrome kno**

time results in a toxic syndrome known as hypervitaminosis A.

Carcinogenicity: **No** NTP? **No** IARC Monographs? **No** OSHA Regulated? **No**

Signs and Symptoms of Exposure: **Dry and itchy skin, dermatitis, disturbed hair growth, chapped lips, bone fractures, headaches, loss of appetite, edema, dizziness, vomiting, and liver damage.**

Medical Conditions Generally Aggravated by Exposure: **Preexisting liver condition.**

Emergency and First Aid Procedures: **For eye contact, flush with plenty of water. If irritated, get medical attention, for skin contact wash with soap and plenty of water; if inhaled, remove person(s) to fresh air, get medical attention. If swallowed, give 2 glasses of water, gat medical attention.**

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: **For small spills; flush to precess drain; for large spills, recover as much material as possible and put unusable material into coantainer for disposal.**

Waste Disposal Method: **Release to process drain with plenty of water or incinerate in furnace with suitable state and federal permits.**

Precautions to be Taken in Handling and Storing: **Store in air-tight, light resistant, unopened container below 70° F and 50% R.H.**

Other Precautions: **N/A**

Section VIII - Control Measures

Respiratory Protection (*Specify Type*): **Disposable dust respirators, when needed.**

Ventilation	Local Exhaust: NA	Special: n/a
	Mechanical (General): Recommended	Other: n/a

Protective Gloves: **Rubber, when needed.**

Eye Protection: **Safety goggles or glasses, when needed.**

Other Protective Clothing or Equipment: **Protective clothing, to avoid skin contact.**

Work/Hygienic Practices: **Normal GMP**