

Material Safety Data Sheet



PRODUCT NAME: METHYL PALMITATE PME 1698

CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

TRADE NAME: METHYL PALMITATE PME 1698
CAS #: 112-39-0
DATE: November 15, 2010
DISTRIBUTOR: ACME-HARDESTY COMPANY
ADDRESS: 450 Sentry Parkway
Blue Bell, PA 19422
TELEPHONE: (866) 226 – 3834
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EMERGENCY: CHEMTREC (800) 424-9300

COMPOSITION / INFORMATION ON INGREDIENTS

SYNONYMS: Methyl hexadecanoate, Palmitic acid methyl ester, Methyl Palmitate

COMPOSITION	CHEMICAL FORMULA	CAS #	WT/WT, %	EC NO	EC SYMBOL	EC R-PHRASES
Methyl Palmitate	C ₁₇ H ₃₄ O ₂	112-39-0	98 – 100	203-966-3	---	---

RECOMMENDED USES: Raw material for manufacturing oleochemical derivatives.

HAZARDS IDENTIFICATION

Classified as non- hazardous to human and environment.

FIRST AID MEASURES

INHALATION: ACUTE/HAZARD SYMPTOM: May cause irritation
FIRST AID: Remove source of contamination r move victim to fresh air.
If adverse effects occur, remove to uncontaminated area.
Give artificial respiration if not breathing.
Get immediate medical attention.

SKIN CONTACT: ACUTE/HAZARD SYMPTOM: May cause redness
FIRST AID: Wash off with plenty of water and soap.
If skin irritation occurs, seek medical advice/attention
Take off contaminated clothing and wash before reuse

EYE CONTACT: ACUTE/HAZARD SYMPTOM: May cause irritation
FIRST AID: Rinse cautiously with water for several minutes
Remove contact lenses, if present and easy to do, and continue rinsing
If eye irritation persists, seek medical advice/attention

INGESTION: ACUTE/HAZARD SYMPTOM: May cause irritation
FIRST AID: Rinse mouth and do NOT induce vomiting
If vomiting occurs, keep head lower than hips to help prevent aspiration
If person is unconscious, turn head to the side
Seek medical attention immediately

FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Dry chemical, appropriate foam or carbon dioxide

SPECIFIC HAZARDS: Combustible when exposed to heat or flame
Thermal decomposition will evolve irritant vapors

PROTECTION FOR FIRE-FIGHTERS: Move container from fire area if it can be done without risk
Do not scatter spilled material with high-pressure water streams
Dike for later disposal
Use extinguishing agents appropriate for surrounding fire
Avoid inhalation of material or combustion by-products
Stay upwind and keep out of low areas

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid contact with eyes. Do not breathe vapor.

ENVIRONMENTAL PRECAUTIONS: Minimize contamination of drains, surface, and ground waters.

METHODS FOR CLEANING UP:

SMALL SPILLS: Absorb with inert material and put spilled material in appropriate container for disposal

LARGE SPILLS: Absorb with inert material and put spilled material in appropriate container for disposal
Ventilate area and wash spill site and allow to evacuate through the sanitary system

HANDLING AND STORAGE

HANDLING: Keep away from heat and sources of ignition
Empty containers pose a fire risk
Evaporate the residue under a fume hood
Ground all equipment containing material
Do not ingest – If ingested, seek medical advice immediately
Avoid contact with skin and eyes
Do not breathe vapors
Wear suitable protective clothing in case of insufficient ventilation
Wear suitable respiratory equipment

STORAGE: Store in the original closed containers
Can be stored in most common storage vessels including carbon steel
Keep in cool, dry place
Storage Class: VCI-Storage Class: 10 (BRD)
Safe Storage/Transport Pressure: Ambient
Load/Unload Temperature: 38 – 43 °C (100 – 110 °F)

EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE:	No occupational exposure limits have been established.
VENTILATION:	Provide local exhaust ventilation system Ensure compliance with applicable exposure limits
PERSONAL PROTECTIVE EQUIPMENT:	
SKIN/BODY PROTECTION:	Wear chemical resistant gloves
EYE PROTECTION:	Wear splash resistant safety goggles and face shields
RESPIRATORY PROTECTION:	May be needed under conditions of frequent use of heavy exposure Consider warning properties before use Any Chemical cartridge respirator with organic vapor cartridge(s) Any chemical cartridge respirator with full face piece & organic vapor cartridge Any air-purifying respirator with a full face piece and an organic vapor canister
ENGINEERING MEASURES:	Ensure ventilation or local exhaust if formation of vapor occurs.
HYGIENE MEASURES:	Good industrial hygiene should be followed.

PHYSICAL AND CHEMICAL PROPERTIES

THE VALUES LISTED BELOW ARE NOT PRODUCT SPECIFICATIONS:

APPEARANCE:	Yellowish liquid (above melting point)
ODOR:	Musty
ODOR THRESHOLD:	Not available
pH:	Not Applicable
MELTING POINT, °C:	Approx. 30°C
BOILING POINT, °C:	> 204 @ 760 mm Hg
FLASH POINT, °C:	156°C (Pensky-Marten Closed Cup)
EVAPORATION RATE:	Not applicable
FLAMMABILITY (Solid/Liquid):	OSHA Flammability Class III-B
VAPOR PRESSURE @ 20°C:	< 1 mm Hg
VAPOR DENSITY (Air=1):	Not available
RELATIVE DENSITY @ 25°C, g/cm ³ :	0.86
SOLUBILITY IN WATER @ 20°C:	Insoluble
PARTITION COEFFICIENT: n-octanol/water:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE, °C:	Not available
VISCOSITY @ 25°C:	Approx. 9 mPa.s
EXPLOSION LIMITS:	Doesn't contain explosive properties
OXIDATION PROPERTIES:	Doesn't contain oxidizing properties

STABILITY AND REACTIVITY

REACTIVITY:	Not a self-reactive substance
CHEMICAL STABILITY:	Stable at normal temperatures and pressure
CONDITIONS TO AVOID:	Heat, flames, sparks and other sources of ignition
MATERIALS TO AVOID:	Incompatible materials/oxidizing agents and strong bases
HAZARDOUS REACTIONS:	Will not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition will evolve irritant vapors Thermal decomposition products: Oxides of carbon and water

TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	LD50 (oral, rat):	Not available
	LD 50 (dermal):	Not available
	LC 50 (inhalation):	Not available
	NOTE:	C8 – C18 Methyl Esters are practically non-toxic
SKIN CORROSION/IRRITATION:	Not expected	
EYE DAMAGE/IRRITATION:	Not expected	
SENSITIZATION:	Not available	
STOST – SINGLE/REPEATED EXPOSURE:	Not available	
ASPIRATION HAZARD:	Not available	
CMR EFFECTS:		
CARCINOGENICITY:	Not listed by ACGIH, IARC, NTP, DFG or OSHA	
GERM CELL MUTAGENICITY:	Negative AMES test (Methyl Laurate, Palmitate & Stearate; CAS# 68937-84-8)	
REPRODUCTIVE TOXICITY:	Not Listed:	CA Prop 65 Developmental Toxin U.S. TRI Developmental Toxin CA Prop 65 Female Reproductive Toxin California Proposition 65 Male Reproductive Toxin U.S. TRI Reproductive Toxin

ECOLOGICAL INFORMATION

ACUTE TOXICITY:	ACUTE:	Not available
	CHRONIC:	Not available
MOBILITY IN SOIL:	Immobile	
BIODEGRADABILITY:	Readily Biodegradable	
BIO-ACCUMULATIVE POTENTIAL:	Log Kow = 7.38	
OTHER ADVERSE EFFECTS:	Not available	

DISPOSAL CONSIDERATIONS

Disposal is to be performed in compliance with all Federal, State/Provincial and local regulations.
Do not dispose of via sinks, drains or into the immediate environment.

TRANSPORT INFORMATION

UN MODEL REGUALTION: Not classified
LAND TRANSPORT ADR/RID/ADN: Not classified
AIR TRANSPORT ICAO-TI and IATA-DGR: Not classified
MARITIME TRANSPORT IMDG: Not classified
U.S. DOT INFORMATION: Not classified

BULK TRANSPORT:

ANNEX II of MARPOL 73/78: Name: Fatty Acid Methyl Ester (m)
Pollution Category: Y
Ship Type: 2

REGULATORY INFORMATION

GHS CLASSIFICATION: Not classified as hazardous material to human or environment

U.S. FEDERAL REGULATIONS: No product components are listed under: SARA Section 302 (40 CFR 355)
SARA Section 311/312 (40 CFR 370.21)
SARA Section 313 (40 CFR 372.65)
CERCLA (40 CFR 302.4)

GERMANY WATER CLASIFICATION/
WGK (Wassergefährdungsklassen): Number 834, Hazard Class 1 – Low hazard to waters

NATIONAL CHEMICAL INVENTORY LISTING: Europe (EINECS): Compliant
USA (TSCA): Compliant
Canada (DSL): Compliant
Australia (AICS): Compliant
Japan (ENCS): Compliant
China (IECSC): Compliant
Korea (ECL): Compliant
Philippines (PICCS): Compliant
New Zealand (NZIOC): Compliant

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Disposal of containers must comply with applicable federal, state and local laws and regulations. Empty containers should never be given to individuals.