

# Material Safety Data Sheet



PRODUCT NAME: METHYL PALMITATE-STEARATE PME 1618 DPK

## CHEMICAL PRODUCT AND DISTRIBUTOR IDENTIFICATION

PRODUCT NAME: Methyl Palmitate-Stearate PME 1618 DPK (Refined Palm Kernel-based)  
CAS #: 67762-38-3  
DATE: November 10, 2010  
DISTRIBUTOR: ACME-HARDESTY COMPANY  
ADDRESS: 450 Sentry Parkway  
Blue Bell, PA 19422  
TELEPHONE: (866) 226 – 3834  
FAX: (215) 591 – 3620  
EMERGENCY: CHEMTREC (800) 424-9300

## COMPOSITION / INFORMATION ON INGREDIENTS

SYNONYMS: Fatty acids, palm oil, methyl esters

COMPOSITION	CHEMICAL FORMULA	CAS #	WT/WT, %	EC NO
Fatty Acids, Palm Oil	$C_{n+1}H_{2n+2}O_2$ (n=13-17),	67762-38-3	99 – 100	267-015-4
Methyl Esters	$C_{18}H_{34}O_2$ & $C_{18}H_{32}O_2$			

## 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

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FIRE FIGHTING MEASURES

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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

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ACCIDENTAL RELEASE MEASURES

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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

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HANDLING AND STORAGE

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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: 32 – 36°C

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EXPOSURE CONTROLS / PERSONAL PROTECTION

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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 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.

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PHYSICAL AND CHEMICAL PROPERTIES

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THE VALUES LISTED BELOW ARE NOT PRODUCT SPECIFICATIONS:

APPEARANCE:	Yellowish liquid
ODOR:	Musty
ODOR THRESHOLD:	Not available
pH:	Not Applicable
MELTING POINT, °C:	8°C
BOILING POINT, °C:	Approx. 204 @ 760 mm Hg
FLASH POINT, °C:	Approx. 218°C (Pensky-Marten Closed Cup)
EVAPORATION RATE:	Not applicable
FLAMMABILITY (Solid/Liquid):	OSHA Flammability Class III-B
VAPOR PRESSURE @ 20°C:	Not available
VAPOR DENSITY (Air=1):	Not available
RELATIVE DENSITY @ 25°C, g/cm <sup>3</sup> :	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 @ 35°C:	Approx. 7 mPa.s
EXPLOSION LIMITS:	Doesn't contain explosive properties
OXIDATION PROPERTIES:	Doesn't contain oxidizing properties

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STABILITY AND REACTIVITY

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REACTIVITY:	Not a self-reactive substance
CHEMICAL STABILITY:	Stable under 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

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TOXICOLOGICAL INFORMATION

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ACUTE TOXICITY:	LD50 (oral, rat) = > 2,000 mg/kg body weight LD 50 (dermal) = Not available LC 50 (inhalation) = Not available
SKIN CORROSION/IRRITATION:	Not classified (rabbit)
EYE DAMAGE/IRRITATION:	Not classified (rabbit)
SENSITIZATION:	No evidence of skin sensitization (guinea-pig)
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 in AMES test
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

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ECOLOGICAL INFORMATION

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ACUTE TOXICITY:	ACUTE: 96 hrs LC50 (fish) > 100 mg/L CHRONIC: Not available
MOBILITY IN SOIL:	Not available
BIODEGRADABILITY:	Readily Biodegradable
BIO-ACCUMULATIVE POTENTIAL:	Not available
OTHER ADVERSE EFFECTS:	Not available

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DISPOSAL CONSIDERATIONS

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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.

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TRANSPORT INFORMATION

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UN MODEL REGULATION: 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:	Palm Oil Fatty Acid Methyl Ester
	Pollution Category:	Y
	Ship Type:	2

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REGULATORY INFORMATION

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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 CLASSIFICATION/  
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
	NEW ZEALAND (NZIOC):	Compliant

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Users must make their own determination that handling, storage and use of the product in the anticipated manner is safe and appropriate. Because these actions of the user are out of our control, and may be beyond our knowledge, we do not assume responsibility and expressly disclaim liability for loss, damage, expense or any other claim arising out of or in any way connected with the handling, storage, use or disposal of the product.

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