

Material Safety Data Sheet (MSDS / SDS)

PFAD (Palm Fatty Acid Distillate)

SECTION 1: Identification

Product Name	Palm Fatty Acid Distillate (PFAD)
Synonyms	PFAD, Palm Fatty Acid Distillate, Palm Acid Oil
CAS No.	68440-27-7
Recommended Use	Oleochemical feedstock for soap manufacturing, animal feed energy supplement, and biodiesel production
Manufacturer / Supplier	Ochnology Solution Pvt. Ltd., B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India - 248001
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SECTION 2: Hazard(s) Identification

GHS Classification: Not classified as hazardous under GHS for acute health or environmental hazards based on available data. May cause mild skin/eye irritation on prolonged or repeated contact. Combustible material - can burn if heated above its flash point (typically >200°C) or exposed to a strong ignition source

Signal Word: None (not classified) - general good-handling-practice precautions apply

Hazard Statements:

- Not classified as a hazardous substance or mixture under GHS/CLP for acute health or environmental hazards based on available data
- May cause mild irritation to skin and eyes on prolonged or repeated direct contact
- Combustible material - can burn if heated above its flash point (typically >200°C) or exposed to a strong ignition source

Precautionary Statements:

- P210 - Keep away from heat, hot surfaces, sparks, open flames - No smoking
- P264 - Wash hands thoroughly after handling

- P280 – Wear protective gloves/eye protection when handling in bulk
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
- P312 – Call a POISON CENTER/doctor if you feel unwell

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration (w/w)
Free Fatty Acids (Palmitic/Oleic/Linoleic mixture, ex. palm oil)	68440-27-7	Min. 90%
Unsaponifiable Matter / Moisture	–	< 2-5% (combined)

SECTION 4: First-Aid Measures

Eye Contact	Rinse with plenty of water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
Skin Contact	Wash with soap and water. Generally low-irritating; remove contaminated clothing if significant contact occurs. Seek medical attention if irritation persists.
Inhalation	Not expected to be a significant exposure route under normal handling given low volatility. If vapour/mist from heated material is inhaled and discomfort occurs, move to fresh air and seek medical attention if symptoms persist.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Seek medical attention if a significant quantity is ingested or discomfort occurs.

SECTION 5: Fire-Fighting Measures

- Combustible material – can burn if heated above its flash point (typically >200°C) or exposed to a strong ignition source
- Suitable extinguishing media: water spray/fog, foam, CO₂, dry chemical – select based on surrounding fire

- Cool fire-exposed containers with water spray
- Fire-fighters should wear SCBA in enclosed or heavily smoke-logged conditions

SECTION 6: Accidental Release Measures

- Contain spill to prevent entry into drains, sewers or waterways
- Absorb with inert absorbent material (sand, vermiculite, earth) and collect in suitable containers for disposal
- Spilled material can create a slip hazard on hard floors – clean promptly
- Wear appropriate PPE (gloves, safety glasses) during clean-up

SECTION 7: Handling and Storage

- Keep away from heat, sparks, open flame and other ignition sources
- Avoid prolonged or repeated skin/eye contact; wash hands after handling
- Store in a cool, dry, covered area away from direct sunlight
- Keep containers/tanks tightly closed to minimise oxidation and odour development
- Product solidifies below $\approx 40-45^{\circ}\text{C}$ – warm gently (indirect heat, not open flame) before pumping/transfer

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits	No specific OEL established for this substance; handle per good industrial hygiene practice
Engineering Controls	General ventilation is normally sufficient; local exhaust recommended if heated
Eye/Face Protection	Safety glasses recommended when handling bulk/concentrate
Hand Protection	General-purpose chemical-resistant gloves recommended for prolonged or repeated contact
Respiratory Protection	Not normally required under standard handling conditions

SECTION 9: Physical and Chemical Properties

Property	Unit	Value
Appearance	–	Brown semi-solid to solid (liquid when warmed)
Odour	–	Characteristic fatty odour
Melting Point (Titer)	°C	40 – 45
Flash Point	°C	> 200 (typical for distilled fatty acid mixtures)
Solubility in Water	–	Insoluble

SECTION 10: Stability and Reactivity

- Stable under normal conditions of storage, handling and use
- Combustible material – avoid heat, open flame and strong ignition sources
- May slowly oxidise/darken in colour on prolonged exposure to air and heat
- Incompatible materials: strong oxidising agents

SECTION 11: Toxicological Information

- Low acute oral and dermal toxicity based on published data for this class of fatty acid/fatty acid mixture
- May cause mild irritation to skin and eyes on prolonged or repeated direct contact
- Not classified as carcinogenic, mutagenic, or toxic to reproduction based on available information

SECTION 12: Ecological Information

- Not classified as hazardous to aquatic organisms under GHS criteria based on available data
- Readily/inherently biodegradable, consistent with published data for natural fatty acid derivatives
- Avoid large-scale release to waterways as general environmental good practice

SECTION 13: Disposal Considerations

- Dispose of product and packaging in accordance with local, state and national regulations
- Not expected to require classification as hazardous waste under standard criteria; confirm local requirements before disposal
- Empty containers may retain product residue – handle and dispose of per label and local regulations

SECTION 14: Transport Information

UN Number	Not applicable – not classified as Dangerous Goods
Proper Shipping Name	Not regulated for transport (IMDG / ADR / IATA / RID)
Transport Hazard Class	Not classified
Packing Group	Not applicable
Environmental Hazards	None identified under standard transport classification criteria

SECTION 15: Regulatory Information

- Widely listed on major chemical inventories (TSCA, REACH, ECL, etc.) as an existing/registered substance
- Buyers/importers should confirm current labelling and inventory requirements applicable to their specific jurisdiction and end-use

SECTION 16: Other Information

Revision Date: 16 July 2026

This SDS has been compiled based on general industry data and knowledge for PFAD (Palm Fatty Acid Distillate) products of this type as commercially supplied. It is intended as a general handling and safety guide and does not replace a batch-specific SDS from the manufacturing mill, which should be obtained and reviewed for each shipment where regulatory submission is required.

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