



## Material Safety Data Sheet

**PALMITIC ACID / HEXADECANOIC ACID**

**MSDS No. 97-PA99KF-2**

Date of Preparation: 10/97

Revision: 1.5

Section 1 - Chemical Product and Company Identification		
<b>Product Name:</b>	PALMITIC ACID / HEXADECANOIC ACID	
<b>Chemical Formula:</b>	C <sub>15</sub> H <sub>31</sub> COOH	
<b>CAS Number:</b>	57-10-3	
<b>Supplier:</b>	McKinley Resources Inc PO Box 810472 Dallas, TX 75381 Phone: 972-620-9730 Fax: 972-421-1860 <a href="http://www.mckinleyresources.com">www.mckinleyresources.com</a>	
<b>CHEMTREC 24-HOUR EMERGENCY PHONE NUMBER: (800)-424-9300</b>		
Section 2 - Composition / Information on Ingredients		
<b>Ingredient Name</b>	<b>CAS Number</b>	<b>% wt or % vol</b>
PALMITIC ACID	57-10-3	> 90.0
Section 3 - Physical and Chemical Properties		
<b>Boiling Point (760 mm Hg):</b> 353.8 °C	<b>Melting Point:</b> 61 °C to 64 °C	
<b>Vapor Pressure at 10 mm:</b> 210 °C	<b>Appearance:</b> WHITE FLAKES	
<b>Odor:</b> SLIGHTLY ACIDIC OR FATTY ODOR	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> 1.025 at 20 °C	
<b>Soluble in:</b> ALCOHOLS, ETHER, CHLOROFORM, CARBON TETRACHLORIDE	<b>Water Solubility:</b> Insoluble	
	<b>Specific Gravity:</b> 0.853	
Section 4 - Fire & Explosion Data		
<b>OSHA / DOT Flammability Classification:</b> NOT FLAMMABLE		
<b>Extinguishing Media:</b> CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM, AND WATER SPRAY.		
<b>Special Firefighting Procedures:</b> WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.		
<b>Unusual Fire and Explosion Hazards:</b> LIKE MOST MATERIALS IN POWDER FORM, IT IS CAPABLE OF CREATING A DUST EXPLOSION		
<b>NFPA Ratings:</b> Health = 1; Flammability = 1; Reactivity = 0		
Section 5 - Stability and Reactivity		
<b>Stability:</b> STABLE.		
<b>Polymerization:</b> WILL NOT OCCUR		
<b>Chemical Incompatibilities:</b> BASES, OXIDIZING AGENTS, AND REDUCING AGENTS.		
<b>Hazardous Decomposition Products:</b> THERMAL OXIDATIVE DECOMPOSITION OF PALMITIC ACID CAN PRODUCE TOXIC FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE.		
Section 6 - Health Hazard Information		
<b>Hazards Identification:</b>		
(1) IRRITANT		
(2) IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN		
<b>HMIS:</b> Health = 1; Flammability = 1; Reactivity = 0; Contact = 1		
<b>Inhalation:</b> May cause irritation to the respiratory tract		
<b>Ingestion:</b> Large oral doses may cause stomach upset		
<b>Skin Contact:</b> May cause irritation		
<b>Eye Contact:</b> May cause irritation		



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**Emergency and First Aid Procedures**

**Inhalation:** REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN.

**Eye Contact:** RINSE IMMEDIATELY WITH PLENTY OF WATER. CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED IRRIGATION WITH COPIOUS AMOUNTS OF WATER.

**Skin Contact:** IMMEDIATELY WASH SKIN WITH PLENTY OF SOAP AND WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE.

**Ingestion:** WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Oral Rat LD50:** > 10 g/kg. Investigated as a tumorigen.

**NTP Carcinogen:**

Known: No

Anticipated: No

**IARC Category:** None

**Section 7 - Spill, Leak, and Disposal Procedures**

**Spill Procedures:** (1) WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

(2) SWEEP UP, PLACE IN BAG AND HOLD FOR WASTE DISPOSAL.

(3) AVOID DUST

(4) VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

**Waste Disposal:** BURN IN CONTROLLED INCINERATOR

**Section 8 - Exposure Controls / Personal Protection**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

*Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**Airborne Exposure Limits:**

OSHA Permissible Exposure Limit: 15 mg/m<sup>3</sup> total dust; 5 mg/m<sup>3</sup> respirable fraction for nuisance dusts

ACGIH Threshold Limit Value: 10 mg/m<sup>3</sup> total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified.

**Section 9 - Special Precautions and Comments**

**Handling & Storage Precautions:** ASSUME GENERAL SAFE HANDLING PRECAUTIONS. KEEP CONTAINER CLOSED TIGHTLY AND STORE IN A COOL, DRY PLACE. WASH THOROUGHLY AFTER HANDLING. AVOID DIRECT FIRE AND SUNLIGHT. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

**Transport Information:** Not regulated

**Regulatory Information:**

**Chemical Inventory Status:**

TSCA	EC	Japan	Australia	Korea	Canada DSL	Canada NDSL	Philippines
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Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
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**Federal, State & International Regulations:**

SARA 302 RQ	SARA 302 TPQ	SARA 313 List	SARA 313 Chemical Catg.	CERCLA	RCRA 261.33	TSCA 8(d)
No	No	No	No	No	No	No

Chemical Weapons Convention: No

TSCA 12(b): No

CDTA: No

SARA 311/312: Acute: Yes; Chronic: No; Fire: No; Pressure: No; Reactivity: No (Pure/Solid)

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations, and the MSDS contains all of the information required by the CPR.

Label Hazard Warning: May cause irritation to skin, eyes and respiratory tract.

Label Precautions: Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

Label First Aid: In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

Prepared By: ERIC KORT

Revision Notes: 1.1 – Reviewed (July 2003)

1.2 – Reviewed (March 2007)

1.3 – Updated address information (May 2007): GMB

1.4 – Updated purity info to include 90% min C-16 (June 2008). EMK

1.5 - Updated No Change – DRK (June 2010)

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\*\*\*\*\* N.D.A. = No Data Available \*\*\*\*\*