



<b>MATERIALS SAFETY DATA SHEET (MSDS) Palmitic acid (C16H32O2)</b>	MSDS Number:	
	Version number:	
	Date issued:	
	Page No:	

## 1. Product Identification

Trade Name	Palmitic Acid
CAS No	57-10-3
Synonyms	Hexadecanoic acid
Recommended Use	Laboratory chemicals.

## Manufacturer/Importer/Supplier/Distributor information

Manufacturer Supplier	
E-Mail	
Contact Person	Entity 1   Made by India
Emergency Telephone	


## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2



<b>Label Elements</b>		Causes skin irritation Causes eye irritation
<b>Signal word</b>	Warning	
<b>Precautionary Statements</b>		
<b>Prevention</b>	Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection.	
<b>Skin</b>	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.	
<b>Eyes</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.If eye irritation persists: Get medical advice/attention	
<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant	
<b>Hazards not otherwise classified (HNOC)</b>	None identified	

### 3. Composition and ingredient information

Chemical name	CAS number	%
Palmitic acid	57-10-3	88.89

### 4. First-aid measures

#### Description of first-aid measures

<b>If inhaled</b>	After inhalation: fresh air.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>In case of eye contact.</b>	After eye contact: Rinse out with plenty of water. Remove contact lenses.
<b>If swallowed</b>	After swallowing: Make victim drink water (two glasses at most). Consult doctor, if feeling unwell.



<b>Indication of any immediate medical attention and special treatment needed</b>	No data available
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## 5. Fire-fighting measures

<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.
<b>Unsuitable extinguishing media</b>	Water - full jet
<b>Special hazards arising from the substance or mixture</b>	In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.
<b>Advice for firefighters</b>	Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
<b>Environmental precautions</b>	<b>No special precautionary measures necessary.</b>
<b>Methods and materials for containment and cleaning up</b>	<b>Observe possible material restrictions. Takeup dry. Dispose of properly. Clean up affected area. Avoid generation of dusts</b>

## 7. Handling and storage

<b>Handling:</b>	<p><b><u>Precautions for safe handling</u></b> No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.</p> <p><b>Information about protection against explosions and fires:</b> No special measures required.</p>
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<b>Conditions for safe storage, including any incompatibilities</b>	<p><b>Storage:</b> Store in accordance with information listed on the product insert.</p> <p><b>Requirements to be met by storerooms and receptacles:</b> No special requirements.</p> <p><b>Information about storage in one common storage facility:</b> Not required.</p> <p><b>Further information about storage conditions:</b> Keep receptacle tightly sealed.</p> <p><b>Specific end use(s):</b> No further relevant information available.</p>
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## 8. Exposure Controls/ Personal Protection

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

<b>Odor</b>	No data available
<b>Flammability</b>	No data available
<b>Upper/lower flammability orexplosive limits</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>pH</b>	No data available



<b>Kinematic Viscosity</b>	No data available
<b>Density</b>	0.852 g/cm <sup>3</sup> at 25 °C - lit.
<b>Relative density</b>	No data available
<b>Relative vapor Density</b>	No data available
<b>Particle characteristics</b>	No data available
<b>Explosive properties</b>	No data available

## 10. Stability and reactivity

<b>Reactivity</b>	The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.
<b>Chemical stability</b>	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure
<b>Possibility of hazardous reactions</b>	<b>Violent reaction with:</b> strong oxidiser
<b>Conditions to avoid</b>	There are no specific conditions known which have to be avoided.
<b>Incompatible materials</b>	There is no additional information.
<b>Hazardous decomposition products</b>	carbon oxides (CO, CO <sub>2</sub> ). Alcohols and Aldehydes.

## 11. Toxicological information

### Acute Toxicity

### Product Information

### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Palmitic acid	10 g/kg ( Rat )	Not listed	Not listed

<b>Toxicologically Synergistic Products</b>	No information available
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>	
<b>Irritation</b>	No information available
<b>Sensitization</b>	No information available
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.



Component	CAS-No	IARC	NTP	ACGIH	OSHA
Palmitic acid	57-10-3	Not listed	Not listed	Not listed	Not listed

<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available.
<b>Developmental Effects</b>	No information available.
<b>Teratogenicity</b>	No information available.
<b>STOT - single exposure</b>	None known
<b>STOT - repeated exposure</b>	None known
<b>Aspiration hazard</b>	No information available
<b>Symptoms / effects, both acute and delayed</b>	No information available.
<b>Endocrine Disruptor Information</b>	No information available

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Palmitic acid	Not listed	150 mg/L LC50 96 h	Not listed	Not listed

<b>Persistence and Degradability</b>	Insoluble in water
<b>Bioaccumulation/ Accumulation</b>	No information available.
<b>Mobility</b>	Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Palmitic acid	>1

## 13. Disposal considerations



<b>Waste treatment methods</b>	Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorized for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.
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## 14. Transport information

<b>UN number or ID number</b>	not subject to transport regulations
<b>UN proper shipping name</b>	not relevant
<b>Transport hazard class(es)</b>	not relevant
<b>Packing group</b>	not relevant
<b>Environmental hazards</b>	not relevant

## 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

## 16. Any other information

### History

<b>Product name</b>
<b>Product code</b>
<b>Date of printing</b>
<b>Date of issue/Date ofRevision</b>
<b>Date of previous issue</b>
<b>Version</b>
<b>Prepared by</b>

## 17. Change Details