

Material Safety Data Sheet

Palmitic acid

SECTION 1.1 – PRODUCT IDENTIFICATION

Product Name	: Palmitic acid
Molecular Formula	: $C_{16}H_{32}O_2$
Molecular Weight	: 256.42
CAS No.	: 57-10-3

SECTION: 1.2 – COMPANY IDENTIFICATION

Company Name: Indenta Chemicals (India) Pvt. Ltd.

Address: 117, The Summit Business Bay, Opp Cinemax, Off. Sir M.V. Road, Near WEH Metro Station, Andheri (E), Mumbai 400 093, India

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Fax #: +91-22-26849060

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS#	% by Weight
Palmitic acid	57-10-3	100

SECTION 3: HAZARD IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

GHS Label Elements: Not a hazardous substance or mixture

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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Unit 2: Building No. 73, Gala No. 7, Indian Corporation Compound, Village Gundavli, Mankoli Naka, Bhiwandi, Thane - 421302

Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510):

Combustible Solids.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching

glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form: flakes

b) Odour

Colour: white

No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting point/freezing point

f) Initial boiling point and boiling range

Melting point/range: 61 - 62.5 °C - lit. 271.5 °C at 133 hPa - lit.

g) Flash point 113 °C

h) Evaporation rate No data available

i) Flammability (solid, gas) No data available

j) Upper/lower flammability or explosive limits

No data available

k) Vapour pressure 10 mmHg at 210 °C

l) Vapour density No data available

m) Relative density 0.852 g/cm³ at 25 °C

n) Water solubility 0.00005 g/l at 20 °C

Partition coefficient: n- octanol/water

p) Auto-ignition temperature

q) Decomposition temperature

log Pow: 7.17

No data available

No data available

r) Viscosity No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available

Incompatible Materials: Strong oxidizing agents, Strong reducing agents, Bases

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological Information

Information on toxicological effects**Acute toxicity**

LD50 Oral - Rat - male and female - > 5,000 mg/kg(Palmitic acid) (OECD Test Guideline 401)

Skin corrosion/irritation

Skin - Rabbit(Palmitic acid) Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit(Palmitic acid) Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation

No data available(Palmitic acid)

Germ cell mutagenicity

No data available(Palmitic acid)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Palmitic acid)

Specific target organ toxicity - single exposure

No data available(Palmitic acid)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard No data available(Palmitic acid)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish semi-static test LC50 - Brachydanio rerio (zebrafish) - > 1,000 mg/l - 96 h(Palmitic acid)

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - > 4.8 mg/l - 48 h(Palmitic acid)

(OECD Test Guideline 202)

Toxicity to algae static test EC50 - Selenastrum capricornutum (green algae) - > 0.9 mg/l - 72 h(Palmitic acid)

(OECD Test Guideline 201)

Toxicity to bacteria Respiration inhibition LC0 - Pseudomonas putida - 3,000 mg/l - 30 min(Palmitic acid)

(OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d(Palmitic acid)

Result: 65 % - Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Palmitic acid)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Other adverse effects

No data available

SECTION 13: Disposal Considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging

Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

UN number

ADR/RID: - IMDG: - IATA: - 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: - 14.4 Packaging group

ADR/RID: - IMDG: - IATA: - 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

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