IOI OLEOCHEMICALS

MATERIAL SAFETY DATA SHEET

Group of Chemicals:	Fatty Acids	MSDS no.: 008
Commercial Name :	MYRISTIC ACID	Date issue : 18 December 2010
Common Name/Other Name:	Tetradecanoic Acid / Fatty Acid C14	

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF SUPPLIER

Product name:

Myristic Acid 99% Min, Myristic Acid 98% Min.

Trade name

Palmac 99-14, Palmac 98-14

Recommended uses:

Raw material for manufacturing oleochemical derivatives
for Pharmaceutical, food, cosmetic and industrial use.

Supplier name:

Acidchem International Sdn Bhd.
2411 Lorong Perusahaan Satu,
Prai Industrial Complex.
13600. Prai.
Penang, Malaysia

Pan Century Oleochemicals Sdn Bhd
Lot 231, Jalan Pekeliling,
Pasir Gudang Industrial Estate,
81700 Pasir Gudang.
Johor, Malaysia

Emergency contact:

Acidchem International Sdn Bhd
+604 3907818

Pan Century Oleochemicals Sdn Bhd
+607-2512298

Contact Person:

1) Safety and Health Manager / Officer
2) Quality Control Manager / Chemist

SECTION 2. HAZARDS IDENTIFICATION

Product is non-hazardous

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description:

Myristic Acid or Tetradecanoic Acid , formula $C_{14}H_{28}O_2$

CAS-number:
544-63-8

EINECS- number:
208-875-2

SECTION 4. FIRST-AID MEASURES

When inhaled:

Sore throat, cough
Remove to fresh air. If suffocation is serious, take to a doctor

When in contact with skin:

Redness, pain
Remove contaminated clothing, flush skin with water or shower, take to a doctor if necessary

When in contact with eyes:

Redness, pain
Flush with water; take to a doctor if necessary

When ingested:

Sore throat, abdominal pain
Rinse mouth, drink plenty of water, see physician

SECTION 5. FIRE-FIGHTING MEASURES

Suitable fire-fighting agents:

Use dry powder, foam, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Water jet

Specific hazards in the event of fire:

Combustible, keep away from open flame, no smoking

Protection of fire-fighters (use of protective equipment, etc.):

Use self-contained breathing equipment if in confined place
Form slippery soap when in contact with alkali.

SECTION 6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use gloves, face shield

Environmental precautions:

Do not allow to flow into drainage system.

Methods and materials for containment and cleaning up:

Collect leakage in sealable containers, soak up with sand or other inert absorbent and remove to safe place. Wash site with sodium bicarbonate solution or soda ash. Wipe clean. Can also allow spillage to solidify, then shovel into containers. Clean up area immediately.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use gloves and wear goggles when handling.

Conditions for safe storage, including any incompatibilities:

Keep in a cool and dry place, avoid extreme heat and cold.
Avoid direct fire. Keep separate from oxidants.
Store in clean, dry, preferably stainless steel vessels.
In bulk, store at about 10 deg C above melting point or ambient. Temperature higher than necessary degrades quality at rate dependent on time and temperature of exposure.
Exposure to ultraviolet light and sunlight must be minimised to prevent quality loss.

SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Control parameters:

None

Appropriate engineering controls:

No special measures required.

Individual protection measures, such as personal protective equipment (PPE):

Immediately remove soiled or soaked clothing.

Hand protection	:	suitable protective gloves.
Eye protection	:	protective goggles.
Body protection	:	suitable protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White/pale yellow solid, flakes or beads.
Odour	Faint fatty odour
Odour threshold	Not available
pH	Not available
Melting point / freezing point	54 ºC
Initial boiling point and boiling range	>300 ºC @ 760mm Hg
Flash point	>200 ºC (Pensky-Martens closed cup)
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper/lower flammability or Explosive limits	Not explosive
Vapour pressure	<1.0 mm Hg @ 131ºC
Vapour density	Not available
Relative density	Not available
Solubility	0.02g/L @ 20 ºC
Partition coefficient: n-octanol/water	5.2 (Annex IV) 6.11 (IUCILD)
Auto-ignition temperature	>250 ºC
Decomposition temperature	Not available
Viscosity	7.48mPa.s @ 60^0C
Density @ 75 ºC	0.85 g/ml
Relative molecular mass	228.4

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

None known

Chemical stability:

None known

Possibility of hazardous reactions:

None known

Conditions to avoid:

Avoid direct fire, strong oxidant /alkalis

Incompatible materials:

Strong oxidants

Hazardous decomposition products:

None known

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:
Oral (rat): LD50 > 10000 mg/kg body weight

Skin corrosion/irritation:
Primary skin irritation (rabbit) : No
Moderately irritating (Human)

Serious eye damage/irritation:
No

Respiratory or skin sensitization:
Not available

Germ cell mutagenicity:
No

Carcinogenicity:
No

Reproductive toxicity:
No harmful effect expected

STOST-single / repeated exposure:
No

Aspiration hazard:
Not available

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity :

Acute fish toxicity:	LC 50 > 118 mg product/l.
Acute bacteria toxicity:	EC 50 > 100 mg product/l.

Persistence and degradability:
Readily biodegradable

Bioaccumulative potential:
Log Pow =5.2

Mobility in soil:
Not available

Other adverse effect:
Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal method:
Waste incineration with the approval of the responsible local authority.

SECTION 14. TRANSPORT INFORMATION

UN Number:
None

UN Proper Shipping Name:
None

Transport Hazard Class:
Not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR.

Packing Group:
None

Environmental Hazard:
Marine pollutant (Yes/No): No
MARPOL Annex II : Category Y

SECTION 15. REGULATORY INFORMATION

Classification and labelling according to GHS:
None

Classification and labelling according to EC:
None

SECTION 16. OTHER INFORMATION

Always work safely around open hatches on bulk tanks. The low density makes flotation difficult for immersed person.

Disclaimer

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