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Material Safety Data Sheet

MYRISTIC ACID

Section 1 - Product Identification

Product Name : Myristic Acid
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
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Email: contact@chemtradeasia.com

Section 2 – Composition / Information of Ingredients

General Chemical Description	Myristic Acid or Tetradecanoic Acid
Chemical Formula	C14 H28 O2
Appearance	White/pale yellow solid, flakes or beads.
CAS Number	544-63-8
EINECS Number	208-875-2

Section 3 – Hazardous Identification

Product is non-hazardous

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	Remove contaminated clothing, flush skin with water or shower, take to a doctor if necessary
When in contact with eyes: Redness, pain	Rinse mouth, drink plenty of water, see physician

Section 5 – Fire Fighting Measures

Rinse mouth, drink plenty of water, see physician	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, face shield
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 minimized 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 @ 600 C
Density @ 75ºC: 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 – Ecological Information

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