



VVF Limited

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MATERIAL SAFETY DATA SHEET

Product Name: Myristic Acid 99	Version: 1.01	Date: May 25, 2009
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1. CHEMICAL PRODUCT IDENTIFICATION

1.1 Product Name	Myristic Acid
1.2 Common Chemical Name	Myristic Acid, Tetradecanoic Acid
1.3 Product Code (Supplier)	Myristic Acid, Myristic 99

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Blend of Following Acids</u>	<u>CAS Number</u>	<u>EINECS Number</u>	<u>% by Weight</u>
1. Dodecanoic Acid	143-07-7	205-582-1	2.0 max.
2. Tetradecanoic Acid	544-63-8	208-875-2	98.0 min.
3. Hexadecanoic Acid	57-10-3	200-312-9	2.0 max.

3. HAZARD IDENTIFICATION

3.1 European Hazard Classification	None applicable
3.2 Environmental Hazards	None identified
3.3 Human Health Hazards, Effects, and Symptoms:	
a. Ingestion	Causes irritation to mucous membrane
b. Inhalation	No harmful effect expected at ambient temperature. Vapours cause irritation
c. Skin Contact	Causes mild irritation
d. Eye Contact	Causes mild irritation

4. FIRST AID MEASURES

4.1 Inhalation	Take affected person into open air
4.2 Skin Contact	Remove contaminated clothing, and wash thoroughly with soap and water
4.3 Swallowing	Do not provide any type of ingestion; seek medical help
4.4 Eye Contact	Immediately flush eyes with a direct stream of water for at least 15 minutes and seek medical attention

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media	Carbon dioxide, dry chemical or foam
a. Suitable	Carbon dioxide, foam
b. Not Suitable	Water may be ineffective
c. Special Fire Fighting Procedures	In case of high temperatures or fire, use a water jet to cool the tank containing the product
5.2 Unusual Fire or Explosion Hazards	None
5.3 Hazardous Thermal Decomposition	Upon decomposition, the product releases carbon dioxide, carbon monoxide, hydrocarbons, soot, aldehydes and ketones
5.4 Protection for Fire Fighters	Wear self-contained breathing apparatus and protective clothing to avoid direct contact with



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5. FIRE FIGHTING MEASURES

eyes and skin

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions	Wear personal protection gear. Observe all standard industry measures
6.2 Environmental Precautions	In case of spillage, cover the spilt amount with sand or soil to absorb the product. Then, collect the sand or soil with the absorbed product into a suitable container and dispose. Sweep or shovel solid matter. Prevent entry of product into drains and ground water
6.3 Clean Up Method	Cover the product with dry earth or sand so that it may be absorbed. Sweep or shovel solid matter. Then, transfer into a container for disposal. Wash affected area with water and detergent

7. HANDLING AND STORAGE

7.1 Handling	Follow good hygiene and safety procedures. Avoid any direct eye or skin contact with the product. Wash hands with soap after handling
7.2 Storage	Store in sealed containers, in a cool and dry place away from heat, strong acids and oxidising agents
7.3 Suitable Packing Materials	HDPE bags, stainless steel tanks
7.4 Unsuitable Packing Material	Unlined MS drums

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Ventilation / Engineering Controls	Use adequate ventilation to keep airborne concentration low. Avoid inhalation of vapours
8.2 Respiratory System Protection	None required when adequate ventilation available at ambient temperature. In the presence of mist or vapours, use a self-contained NIOSH/MSHA approved respirator
8.3 Skin and Body Protection	Wear a uniform, apron and rubber boots
8.4 Eye Protection	Wear safety goggles or a face mask
8.5 Other Protective Equipment	Eye wash, safety shower, protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Average Molecular Weight	Approximately 228
9.2 Specific Gravity	Not available
9.3 Gas Density	Not available
9.4 Liquid Density	0.86 at 60 ⁰ C
9.5 Vapour Pressure	At 72 ⁰ F (22 ⁰ C) 1mm Hg
9.6 Solubility in Water	Insoluble in water
9.7 Percent Volatiles by Volume	Not available
9.8 Evaporation Rate	Not available
9.9 pH	Not available
9.10 Sublimation Point	Not available



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9.11 Appearance, Odour and State	Clear liquid at 60°C with a characteristic fatty odour
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10. STABILITY AND REACTIVITY

10.1 Chemical Stability	Stable under normal operational conditions
10.2 Conditions to Avoid	Sources of heat, ignition and flame
10.3 Materials to Avoid	Strong acids and oxidising agents
10.4 Hazardous Polymerisation Products	None
10.5 Hazardous Decomposition Products	Carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity	Non toxic
a. Oral (LD50) (Rat)	10 mg /kg
b. Dermal (LD50) (Rabbit)	Not available
c. Inhalation (LC50)	Not available
d. Skin Irritation	Mild irritation
e. Eye Irritation	Corneal opacity and mild conjunctivitis observed due to irritation
f. Carcinogenicity	Not reported

12. ECOLOGICAL INFORMATION

12.1 Comment	This product is very easily biodegradable (90%) and does not cause difficulties in waste water treatment plants. Being insoluble in and lighter than water, large amounts of contamination can be separated using standard oils and fats separators
12.2 Eco-Toxicity	Data not available

13. DISPOSAL CONSIDERATIONS

13.1 Methods of Disposal	Reprocess or dispose of in accordance with local, state and federal regulations, in an approved area
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14. TRANSPORT INFORMATION

14.1 UN Number	Not regulated for transport
14.2 Land Road / Railway	
14.21 ADR/RID Class	Chemicals N. O. S. (non regulated)
14.22 ADR/RID Item Number	Chemicals N. O. S. (non regulated)
14.3 Inland Waterways	
14.31 ADNR Class	Chemicals N. O. S. (non regulated)
14.4 Sea	
14.41 IMDG Class	Chemicals N. O. S. (non regulated)
14.42 IMDG Page Number	
14.5 Air	
14.51 IATA-DGR Class	Chemicals N. O. S. (non regulated)
14.6 National Transport Regulations	Chemicals N. O. S. (non regulated)

15. REGULATORY INFORMATION

15.1 EEC Regulations	This product has been classified in accordance with the hazard
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	criteria of controlled product regulation
15.2 Inventory Status	TSCA, AICS, DSL, IECSE, EINECS, ENCS, KECI, PICCS
15.2 Others	According to available data, the product is not regulated. However, one should observe prescribed federal, state and local measures while dealing with chemicals

16. OTHER INFORMATION

16.1 REACH Pre-Registration Number	Not available
16.2 Legend	Not applicable; not available
16.3 History:	
a. Date of First Issue	July 20, 2004
b. Date of Last Issue	July 20, 2004
c. Date of Current Issue	May 25, 2009 Version: 1.01
MSDS Prepared By	Mr. C.R. Marathe
MSDS Authorised By	Dr. Kashinath Pandit

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