



VVF (India) Limited

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MATERIAL SAFETY DATA SHEET

Product Name : Lauric Myristic acid (C12-C14 FA)	Version : 1.00	Date: Jan 09,2015
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1. Identification of the substance/mixture and of the company/undertaking

Product details

1.1 Trade name : **Lauric Myristic acid (C12-C14 FA)**

1.3 Application of the substance / the preparation usages:
Manufacture of Substances.

1.4 Manufacturer/Supplier:
VVF (India) Limited, 109, Sion (E) MUMBAI – 40022

1.5 Emergency Contact Details:

Technical Support	Safety Support
Contact person : C. R. Marathe.	Mr. Sunil Katekari
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008

Chronic aquatic toxicity (Category 3) H412: Harmful to aquatic life with long lasting effects
Skin irritation (Category 2) H315: Causes skin irritation.

2.1.2 Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi Irritant R38 : Irritating to skin

2.2 Information concerning particular hazards for human and environment: Not applicable

2.2.1. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



GHS07

Signal word: Warning

Hazard statements : H412 Harmful to aquatic life with long lasting effects.
Causes serious eye irritation.

: H315 Causes skin irritation.

Precautionary statements P 273 Avoid release to the environment

Other Hazards Irritation to mucous membrane after Ingestion.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Additional information:



Common Chemical Name: **Lauric Myristic acid**

This product is blend of following Fatty Acids

Hazardous ingredients according to Regulation (EC) No 1272/2008

Name	CAS No.	EINECS No	Classification	% by Weight
Decanoic acid	334-48-5	206-376-4	--	2.0 Max
Dodecanoic acid	143-07-7	205-582-1	Eye Dam. 1; H318	72 Min.
Tetradecanoic acid	544-63-8	208-875-2	Skin Irrit. 2; H315	20 - 28
Hexadecanoic acid	57-10-3	200-312-9	--	4.0 Max.

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	Don't give anything through mouth and seek medical attention
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 temperature or fire, use a water jet to cool the tank containing the product.
5.2 Unusual Fire / Explosion Hazards	None
5.3 Hazardous Thermal decomposition	On decomposition gives Carbon dioxide ,Carbon monoxide, hydrocarbons, soot, aldehydes and ketones
5.4 Protection of Fire-fighters	Wear Self contained breathing apparatus and protective clothing to avoid direct contact with eyes and skin

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
6.2 Environmental Precautions	In case of spillage, cover the spill amount with sand or soil to absorb the product, Then, collect the sand or soil with the product absorbed into a suitable container and dispose. Sweep or shovel solids. 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 solids. Then, transfer into a container for disposal. Flush affected area with water & detergent
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7. HANDLING AND STORAGE

7.1 Handling	Follow good hygiene & safety procedures. Avoid any direct eye &/or skin contact with the product. Wash 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 carboys, Stainless steel tanks or lacquer- lined MS drums.
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 vapour
8.2 Respiratory Protection	None required when adequate ventilation available at ambient temperature. In presence of mist/vapour use self contained NIOSH/MSHA approved respirator.
8.3 Skin Protection	Use uniform, apron and rubber boots.
8.4 Eye protection	Use safety goggles or face mask
8.5 Other Protective Equipment	Eye wash, safety shower, protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Average molecular weight	Approximately 208
9.2 Specific Gravity	Not available
9.3 Gas Density	Not available
9.4 Liquid Density	0.875 at 40 °C
9.5 Vapour pressure	At 72° F (22° 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
9.11 Appearance, odour & State	Clear liquid at 40 ° C with characteristic fatty odour

10. STABILITY AND REACTIVITY

**10. STABILITY AND REACTIVITY**

10.1 Chemical stability	Stable under normal operational condition
10.2 Conditions to avoid	Sources of heat, ignition & 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 di oxide

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, rabbit	Mild irritation
e. Eye irritation, rabbit	Corneal opacity ,mild conjunctivitis observed irritant
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 treatments plants. Being water insoluble & lighter than water, large amounts of contamination can be separated using typical standard oil/fats separators
12.2 Eco toxicity	Data not available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method	Reprocess or dispose off in accordance with local, state and federal regulation 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	Chemicals N. O. S. (non regulated)
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**Labelling according to Regulation (EC) No 1272/2008**

Hazard pictograms	: Please refer section 2
Signal word	: Warning
Hazard determining components of labelling	: Please refer section 2
Hazard statements:	: Please refer section 2
Precautionary statements	: Please refer section 2
Labelling according to EU guidelines	: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous
Code letter and hazard designation of product	: Please refer section 2
Risk phrases	: Please refer section 2
Safety phrases	: Please refer section 2
Chemical safety assessment	: A Chemical Safety Assessment was not carried out

National regulations

Other regulations, limitations and prohibitive regulations: Inventory Status	The substance is not listed as SVHC. (Substances of very high concern) according to REACH, Article 57 TSCA, AICS, DSL, IECSE, EINECS, ENCS, KECI, PICCS
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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR	: Accord European sur le transport des marchandises danger uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	: Regalement international concern ant le transport des

**16. OTHER INFORMATION**

	merchandises danger uses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG	: International Maritime Code for Dangerous Goods
IATA	: International Air Transport Association
IATA-DGR	: Dangerous Goods Regulations by the "International Air Transport Association"
GHS	: Globally Harmonized System of Classification and Labelling of chemical.
EINECS	: European Inventory of Existing Commercial Chemical Substances
CAS	: Chemical Abstracts Service (division of the American Chemical Society)

Product Name : Lauric Myristic Acid	Version : R 1.00	Jan 09,2015
a. Date of first issue	January 09 , 2015	R 1.00
b. Date of last issue	--	--
c. Date of current issue	January 09 , 2015	R 1.00
MSDS Authorised By	Mr. C.R.Marathe	

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