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	VVF (India) Limited

SAFETY DATA SHEET

Product Name : Capric acid	
Version: 2.01	Date: Jan 1, 2015

1. CHEMICAL PRODUCT IDENTIFICATION	
1.1 Product Name	Capric acid
1.2 Common Chemical Name	Capric acid, Decanoic acid
1.3 Product code (Supplier)	Capric 98, Capric 99
1.4 Application of the substance / the preparation usages:	Decanoic acid is used in the manufacture of esters for artificial fruit flavors and perfumes. It is also used as an intermediate in chemical syntheses. It is used in organic synthesis and industrially in the manufacture of perfumes, lubricants, greases, rubber, dyes, plastics, food additives and pharmaceuticals
1.5 Manufacturer/Supplier:	VVF (India) Limited, 109, Sion (E) MUMBAI – 400022
1.6 Emergency contact details	+ 91-22- 9619551607

2. HAZARD IDENTIFICATION	
2.1 Hazard pictograms	
2.2 Signal word	Warning
2.3 Hazard statements	H315: Causes skin irritation. H319: Causes serious eye irritation H335: May cause respiratory irritation
2.4 Precautionary statements	P261: Avoid breathing dust/fume/gas/mist/vapours/spray P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2.5 European Hazard classification	Xi –Irritant, R36/38-Irriting to eye & skin
2.6 Human Health Hazards Effect & symptoms:	
2.6.1 Ingestion	Causes irritation to mucous membrane.
2.6.2 Inhalation	No harmful effect expected at ambient temperature. Vapours or mist can cause irritation, coughing or difficult breathing.
2.6.3 Skin Contact	Irritating to skin, prolong exposure can be sever.
2.6.4 Eye Contact	Irritating to eye, causes temporary severe eye irritation

3. COMPOSITION / INFORMATION ON INGREDIENTS	
3.1 Chemical Characterization (substance)	Decanoic acid
3.2 Compound, % by wt.	95 - 100
3.3 CAS Number	334-48-5
3.4 EINECS Number	206-376-4
3.5 Formula	C ₁₀ H ₂₀ O ₂

4. FIRST AID MEASURES	
4.1 Inhalation	Take affected person into open air. In case of stoppage of breathing provide artificial respiration. Seek immediate medical attention.
4.2 Skin Contact	Remove contaminated clothing, and wash thoroughly with soap and water.
4.3 Swallowing	Don't give anything through mouth to unconscious person. Do not induce vomiting and seek medical attention.
4.4 Eye Contact	Immediately flush eyes with a direct stream of water for at least 15 minutes, and seek



immediate medical attention.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media	
a. Suitable	Carbon dioxide, dry chemical or 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	Wear personal protection gear. Observe all standard industry measures
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. 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. Then, transfer into a container for disposal. Flush affected area with water & detergent

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 source, strong acids and oxidising agents
7.3 Suitable Packing Materials	HDPE carboys, stainless steel, aluminium or lacquer- lined MS drums.
7.4 Unsuitable Packing Material	Unlined MS drums

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 OSHA permissible exposure limit (PELs)	Not Listed
8.2 ACGIH threshold limit value (TLVs)	Not Listed
8.3 Ventilation / Engineering Controls	Use adequate ventilation to keep airborne concentration low. Avoid inhalation of vapour
8.4 Respiratory Protection	None required when adequate ventilation available at ambient temperature. In presence of mist/vapour use self contained NIOSH/MSHA approved respirator.
8.5 Skin Protection	Use uniform, apron and rubber boots.
8.6 Eye protection	Use safety goggles or face mask
8.7 Other Protective Equipment	Eye wash, safety shower, protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Average molecular weight	~172.6
9.2 Flash point	Flash point 152 °C
9.3 Melting point	31.6 °C (88.9 °F; 304.8 K)
9.4 Boiling point	268.7 °C (515.7 °F; 541.8 K)
9.3 Gas Density	Not available
9.4 Liquid density	0.9 at 20 °
9.5 Vapour pressure	At 72° F (22° C)<0.1mm Hg
9.6 Solubility in water	Very slightly soluble



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 colourless liquid at 35° C rancid, pungent fatty odour

10 STABILITY AND REACTIVITY

10.1 Reactivity	Data not available
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 dioxide

11. TOXICOLOGICAL INFORMATION**11.1 Acute Toxicity**

Name	CAS.NO	LD50(Oral)	LD 50(Dermal)	LC 50 (Inhalative)
Decanoic acid C10	334-48-5	15800 mg/kg bw	---	> 0.93mg/L

d. Skin irritation, rabbit	Irritant to rabbit skin
e. Eye irritation, rabbit	Irritant to rabbit eyes
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							
Name	CAS.NO	Biodegradability	Fish acute toxicity 96h LC50 mg/L	Daphnia acute toxicity 48h EC50 mg/L	Daphnia chronic toxicity 21d NOEC mg/L	Algae toxicity 72h EC50/NOEC mg/L	Toxicity to microorganisms mg/L
Decanoic acid C10	334-48-5	---	> 16	> 20	0.2	EC50 15 NOEC 3.2	EC10 (30min) 10000

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

15.1 EEC - Regulations	This product is not classified as dangerous according to EEC directive
15.2 Inventory Status	AICS, China, EINECS, DSL, ENCS, Korea, PICCS, TSCA &
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 History		
a. Date of first issue	July 20, 2004	
b. Date of last issue	August 09, 2013	
c. Date of current issue	Jan 1, 2015	Version : 2.01
SDS authorised by	Mr. C. R. Marathe	

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