



**VVF Limited**

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**MATERIAL SAFETY DATA SHEET**

Product Name: Caprylic-Capric Acid	Version: 1.01	Date: May 25, 2009
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**1. CHEMICAL PRODUCT IDENTIFICATION**

1.1 Product Name	Caprylic-Capric Acid, Fatty Acid C8-C10
1.2 Common Chemical Name	Caprylic Acid-Capric Acid, Octonoic-Decanoic Acid
1.3 Product Code (Supplier)	Caprylic-Capric Acid, C8C10 FA

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

2.1 Chemical Characterization (Substance)	Blend of Octonoic-Decanoic acid
2.2 Compound, % by Weight	100
2.3 CAS Number	68937-75-7 or 67762-36-1
2.4 EINECS Number	273-086-2 or 261-013-3
2.5 Formula	$C_8H_{16}O_2 - C_{10}H_{20}O_2$

**3. HAZARD IDENTIFICATION**

3.1 European Hazard Classification	C- corrosive, R34-causes burns
3.2 Environmental Hazards	Product is biodegradable
3.3 Human Health Hazards, Effects, and Symptoms:	
a. Ingestion	May cause irritation and damage to gastrointestinal tract
b. Inhalation	No harmful effect expected at ambient temperature. Vapours cause irritation. May cause coughing or breathing difficulties
c. Skin Contact	Causes irritation to skin
d. Eye Contact	Causes burns and severe damage to eyes

**4. FIRST AID MEASURES**

4.1 Inhalation	Take affected person into open air. In case the person is unable to breathe, provide artificial respiration. Seek medical attention immediately
4.2 Skin Contact	Remove contaminated clothing and wash thoroughly with soap and water
4.3 Swallowing	Do not provide any type of ingestion to an unconscious person. Do not induce vomiting. Seek medical attention
4.4 Eye Contact	Immediately flush eyes with a direct stream of water for at least 15 minutes. Seek 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 temperatures or fire, use a water



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<b>5. FIRE FIGHTING MEASURES</b>	
	jet to cool the tank containing the product
5.2 Unusual Fire or Explosion Hazards	May result in the generation of carbon monoxide or carbon dioxide
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 eyes, face and skin

<b>6. ACCIDENTAL RELEASE MEASURES</b>	
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. 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. Wash affected area with water and detergent

<b>7. HANDLING AND STORAGE</b>	
7.1 Handling	Follow good hygiene and safety procedures. Avoid any direct eye and 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 carboys, stainless steel or aluminium tanks, lacquer- lined MS drums
7.4 Unsuitable Packing Material	Unlined MS drums

<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
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 presence of mist/vapours, use 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

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
9.1 Average Molecular Weight	Approximately 157
9.2 Specific Gravity	0.9 at 20 <sup>0</sup> C
9.3 Gas Density	Not available



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9.4 Liquid Density	Not available
9.5 Vapour Pressure	At 72 <sup>0</sup> F (22 <sup>0</sup> C)<1mm Hg
9.6 Solubility in Water	Very negligible
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 and State	Clear colourless liquid characteristic pungent fatty odour

### **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	Low acute toxicity>2000 mg/kg
a. Oral (LD50) (Rat)	>2g/Kg
b. Dermal (LD50) (Rabbit)	>2g/Kg
c. Inhalation (LC50)	Not available
d. Skin Irritation	Corrosive and an irritant
e. Eye Irritation	Corrosive and an 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 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**

Proper Shipping Name	Corrosive Liquid, Acidic, Organic, N.O.S.
Technical Name	Octanoic-Decanoic acid
14.1 UN Number	3265
14.2 Land Road / Railway	
14.21 ADR/RID Class	Class 8, packing Gr. III
14.22 ADR/RID Item Number	Sub risk no-40-c
14.3 Inland Waterways	
14.31 ADNR Class	Class 8, packing Gr. III, sub risk no-40-c
14.4 Sea	



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14.41 IMDG Class	Class 8, packing Gr. III
14.42 IMDG Page Number	8-15/760-4.3
14.5 Air	
14.51 IATA-DGR Class	Class 8, Gr. III
14.6 National Transport Regulations	Class 8, Gr. III

**15. REGULATORY INFORMATION**

15.1 EEC Regulations	This product is classified as corrosive according to the EEC directive
15.2 Inventory Status	AICS, China, EINECS, DSL, Japan, Korea, Philippines, TSCA
15.2 Others	According to available data, the product is not regulated. One should, however, observe prescribed federal, state and local measures while dealing with chemicals

**16. OTHER INFORMATION**

16.1 REACH Pre-Registration Number	05-2116454374-44-0000
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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