Godrej Industries Limited

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Material safety data sheet (MSDS)			
1. Chemical Product And Company Identification			
Trade Name	:	**DCNFA - Regular / Special**	
Manufacturer's Name andAddress	:	GODREJ INDUSTRIES LIMITED Eastern Express Highway, Vikhroli East,Mumbai (India) Pin - 400 079	
Telephone	:	91-22-2518 80-10 / 20 / 30	
Fax No.	:	91-22-2518 80-96 / 68	
2.Composition / Ingredients (Ref :4,5)			
Chemical Composition	:	A variable (within acceptable limits) mixture of Fatty Acids generally conforming to that obtained from Natural Coconut Oil.	
Average Molecular Weight	:	204 - 212	
Chemical Identity Saturated Fatty Acids ranging from C6 to C18 & Unsaturated C18 Fatty Acids.	:	Synonyms Coconut Fatty Acid or Coconut Acid.	CAS Nos. 67701-05-7 or 61788-47-4
3.Hazard Identification (reference: 4, 5)			
Human Health Rating (Inhalation)	:	Slight (Vapour causes irritation only when heated)	
Flammability Rating	:	Slight	
Reactivity Rating	:	Slight	
Contact Rating	:	Mild	
Storage	:	General	
4. First-aid Measures (reference: 4, 5)			
Ingestion	:	Drink plenty of water & 2-3 cupfuls of milk.	
Skin	:	Remove contaminated clothing and wash exposed area with plenty of water followed by soap and water for atleast 15 minutes.	
Eye	:	Irrigate the eyes with plenty of water for at least 15 minutes.	
Inhalation	:	Take person into fresh air and allow to	

		rest
In all of the above cases, get a doctor to check the affected person.		
5. Fire hazard and Fire-fighting Measures (reference: 4, 5)		
Flammability	:	Flammable and Combustible in contact with heat or fire
Means of Extinction	:	Use Water spray, Carbon Dioxide, Dry Chemical, or Alcohol Foam. Use Water to keep fire exposed container cool
Flash Point	:	160 ° C
Auto Ignition	:	325 ° C
Hazardous Combustion Product	:	None
6. Accidental Release (reference: 4, 5, 6)		
Personal Protection	:	Use complete protective gear as prescribed in Section 8. High risk of slipping as product is a liquid
Leak And Spill Procedures	:	Remove sources of ignition, ventilate area, sweep up the liquid in dry sand and shovel into a closed container. Collect spillages into sumps/traps so as to minimise contamination of drains, surface & ground waters.
7. Handling and Storage Measures (reference: 4, 5)		
Handling Containers	:	Use full protective gear. Protect containers against physical damage / direct sunlight / water
Storage Conditions of Containers	:	Use leak-proof and compatible Tanks (SS) / Drums (SS/MSLL/HDPE) Store in dry and well ventilated locations at ambient temperature (< 35 °C) away from direct sunlight.
8. Exposure Controls and Personal Protection Measures (reference: 6)		
Engineering Control : Use adequate ventilation to keep airborne concentrations low. Avoid inhalation of heated vapours.		
Personal Protection :		
Skin	:	Rubber Gloves
Respiration	:	Air respirator
Eyes	:	Splash - proof Safety Goggles
Feet	:	Safety Shoes
Body	:	Lab Coat
Hygienic precautions	:	Remove contaminated clothing and wash hands between breaks and at the end of duty hours. Eye washes & Emergency Showers must be located in all work &

		storage areas.
9. Physical and Chemical Properties (reference: 4)		
Physical State	:	Liquid above 30 °C
Appearance & Odour	:	Pale Yellow with characteristic Odour
Specific Gravity (20 °C)	:	0.88
Boiling Range	:	240 -270 °C at 760 mm
Melting Range	:	22 to 26 °C
Vapour Pressure	:	< 1mm at 20 °C
Solubility in water (20 °C)	:	Insoluble
10. Reactivity Data (reference: 1, 4, 5)		
Chemical Stability	:	Product stable under the prescribed storage conditions.
Incompatibility with Substances	:	Strong Oxidising Agents
Reactivity and under what Conditions	:	Heating as such or in the presence of any metals
Hazardous Decomposition	:	Acrid smoke & irritating fumes of Carbon Oxides when heated above its BP
Hazardous Polymerization	:	Will not occur
11. Toxicological Properties (reference: 2, 3, 4, 5)		
Toxicity	:	Non toxic
Skin contact	:	Mild Irritation
Inhalation	:	Irritant to Mucous membrane (only when heated)
Skin absorption	:	Slight
Eye contact	:	Slight Transient Irritation
Ingestion	:	rat LD_{50} > 22 gm/kg
Effect of Acute and Chronic Exposure to Material	:	The extensive uses of Coconut Fatty Acid in Industry have not been accompanied by any reports of injury.
Irritancy of Material	:	Slight
Carcinogenicity, Reproductive Effects, Teratogenicity, Mutagenicity	:	None Reported
12. Ecological Information (reference: 2, 4, 5)		
The product should not get into waters without treatment. Dissolved in water the material is easily biodegradable (90 %) and will not cause any disturbance in the waste water treatment plants. Due to its insolubility in water larger amounts need to be eliminated by separators typically used for fats and oils.		
Fish LC_{50} (96 hrs) > 900 mg/L		

Water endangering class : 1 (slightly water endangering)

13. Waste Disposal (reference: 4, 5)

Leak And Spill Procedures	:	Sweep up the liquid in dry sand and shovel into a closed container
Disposal	:	Stored waste / recovered material used for recycle along with corresponding crude oils. For disposal of contaminated packing & any unrecoverable / recyclable materials observe local, state or federal regulations.

14. Transport Recommendations (reference: 4, 5)

No special conditions, as it is not a regulated product. However one should observe the usual precautionary measures for transporting chemical cargo.

15. Regulatory Requirements (reference: 4, 5)

According to the data available the product is not a regulated product. However one should observe the prescribed Federal, State & Local measures for dealing with chemicals.

Listed on EINECS(EU), TSCA(USA), DSL(Canada), AICS (Australia), MITI(Japan), Korea & Philippines.
EINECS No. :
Coconut Fatty Acid 266-929-0 or Coconut Acid 262-978-7
Not listed as a Carcinogen by NTP, IARC or OSHA

16. Other Information

Sources of information
1. Fatty Acids - Klare Markley (1960)
2. Palm Oil Developments No. 28 Page 22 - 49 (March 1998)
3. JAOCS 56 Pages 760A - 767A (1979)
4.Uniqema, USA - MSDS of Prifac 7907 Distilled Coconut Fatty Acid (14-02-2001)
5. Procter & Gamble Chemicals, USA - MSDS of C-110 & C-110K , Fatty Acids, C8-C18 Saturated & C18 Unsaturated (22/11/1998)
6. United Coconut Chemicals, Philippines – General Safety Precautions of its Products