

Material safet	y d	ata sheet (MSDS)	
1. Chemical Product And Compa	iny	Identification	
Trade Name	:	OELIC ACID	
2. Composition / Ingredients		•	
Chemical Composition	:	Mainly Oleic Acid, Linoleic Acid & Linolenic Acid	
Average Molecular Weight	:	283.5	
Chemical Identity of Components CH_3 (CH_2) $_7$ CH=CH (CH_2) $_7$ COOH CH_3 (CH_2) $_5$ (CH=CH) $_2$ (CH $_2$) $_7$ COOH CH_3 (CH_2 CH=CH) $_3$ (CH $_2$) $_7$ COOH	:	Synonym Octadecenoic Acid Octadecadienoic Acid Octadecatrienoic Acid	CAS Nos. of Components 112-80-1 60-33-3 463-40-1
3. Hazard Identification (reference	e:	4)	
Health Rating	:	Slight	
Flammability Rating	:	Slight	
Reactivity Rating	:	Slight	
Contact Rating	:	Slight	
Storage	:	General	
4. First-aid Measures (reference:	4)		
Ingestion	:	Drink plenty of wate	er
Skin	:	Remove contamina wash exposed area water followed by s	ated clothing and a with plenty of coap and water
Eye	:	Irrigate the eyes with plenty of water	
Inhalation	:	Take person into fro	esh air and allow
*In all of the above cases, get a do	octo	r to check the affecte	ed person.
5.Fire hazard and Fire-fighting M	lea	sures (reference: 1	, 4)
Flammability	:	Flammable and Co contact with heat of	mbustible in r fire

	Means of Extinction	:	Use Water spray, Carbon Dioxide, Dry Chemical, or Alcohol Foam. Use Water to keep fire exposed container cool	
	Flash Point	:	189° C	
	Auto Ignition	:	363° C	
	Hazardous Combustion Product	:	Cracked hydrocarbons	
	6. Accidental Release (reference	: 4)		
	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 Measure	es ((reference: 4)	
	Handling Containers	:	Use full protective gear. Protect containers against physical damage / direct sunlight / water	
	Storage Conditions of Containers	:	Use leak-proof and compatible Drums. Store in dry and well ventilated locations at ambient temperature away from direct sunlight.	
ĺ	8. Exposure controls and Persor	nal	protection Measures (reference: 4)	
ĺ	Engineering Control :			
	Use adequate ventilation to keep a inhalation of heated vapours.	irbo	orne concentrations low. Avoid	
	Personal Protection :			
	Skin	:	Rubber Gloves	
	Respiration	:	Air respirator]
	Eyes	:	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 Proper	tie	s (reference: 1, 4, 5, 6)	
ĺ	Physical State	:	Liquid above 25°C	1
	Odour & Appearance	:	Pale Yellow Liquid with Slight Odour	-
	Specific Gravity	:	0.884 at 60 °C	
	Boiling Point	:	192°C at 6mm	
	Melting Point	:	16 to 20 °C	
	Vapour Pressure	:	1mm at 176.5 °C	ĺ
	Solubility in water (20 °C)	:	Insoluble	
	10. Reactivity Data (reference: 4,	5,	6)	1
	Chemical Stability	:	Product stable under the prescribed storage conditions.	1
	Incompatibility with Substances	:	Perchloric Acid	
	Reactivity / Conditions	:	Peroxidized acid with Aluminium	
	Hazardous Decomposition	:	Acrid smoke & irritating fumes of Carbon Oxides when heated above its BP	
	Hazardous Polymerization Products	:	None	1
	11. Toxicological Properties (refe	ere	nce: 2, 3, 4, 5)	
	Toxicity	:	Non toxic	
	Skin contact	:	Slight Erythema	
	Inhalation	:	Slight	
	Skin absorption	:	Slight	-
	Eye contact	:	Slight Irritation	1
	Ingestion		Rat LD ₅₀ > 21.5 ml/kg	1
	Effect of Acute and Chronic Exposure to Material	:	The extensive use of Oleic, Linoleic & Linolenic Acids in Industry has not been accompanied by any reports of	

		injury.	
Irritancy of Material	:	Slight	
Carcinogenicity, Reproductive Effects, Teratogenicity, Mutagenicity	:	None Reported	
12. Ecological Information (reference)	eno	ce: 4, 5, 6)	
The product should not get into wa the material is easily biodegradable disturbance in the waste water trea water larger amounts need to be el fats and oils.	ter: e (! itm limi	s without treatment. Dissolved in water 90 %) and will not cause any ent plants. Due to its insolubility in inated by separators typically used for	
Aquatic Ecotoxicity Fish LC_{50} (96 hrs) > 205 mg/L			
13. Waste Disposal (reference: 4	, 5,	6)	1
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 crude oils. Any unrecoverable / recyclable materials should be disposed off in accordance with the local, state or federal regulations.	
14. Transport Recommendations	5 (r	eference: 4, 5, 6)	
No special conditions, as it is not a observe the usual precautionary m	reg eas	gulated product. However one should sures for transporting chemical cargo.	1
15. Regulatory Requirements (re	fer	ence: 4, 5, 6)	
According to the data available the However one should observe the p measures for dealing with chemica	pro res ls.	oduct is not a regulated product. scribed Federal, State & Local	
Hazard Identification	:	Irritant	
Risk Phrases	:	R 36, 38	
Safety Phrases	:	S 2, 24, 25	
The above mentioned classification product. The 2 major Compnents are listed (Canada), AICS (Australia) & MITI EINECS No : Oleic Acid 204-007-1 Acid 207-334-8	n is on (Ja / L	valid for Idustrial users of this EINECS (EU), TSCA (USA), DSL Ipan) Inoleic Acid 200-470-9 / Linolenlic	

6. Other Information	
Note :- All the above data is based on only the 2 major fatty acids nixture. Sources of information I. Fatty Acids - Klare Markley (1960) 2 Palm Oil Developments No. 28 Page 22 - 49 (March 1998)	of this
. JAOCS 56 Page 760A - 767A (1979) . ICN Biochemicals - MSDS of Oleic Acid (31-12-1998)	
5. Cognis Corporation – MSDS of Linoleic Acid (09/01/2001)	\