OLEIC ACID

PRODUCT IDENTIFICAT	[ION
CAS NO.	112-80-1; 8046-01-3; 17156-84-2; 56833-51-3
EINECS NO.	204-007-1
FORMULA	$CH_3(CH_2)_7CH=CH(CH_2)_7COOH$
MOL WT.	282.47
h.s. code	3823.12
DERIVATION	
TOXICITY	Oral rat LD50: 74000 mg/kg
synonyms	9-Octadecenoic acid (Z)-; (Z)-9-Octadecenoic acid; cis-9-Octadecenoic acid; Red oi
Metaupon; 9-octade	cenoic acid; cis-Delta-9-octadecanoate; cis-octadec-9-enoic acid; Ooleoate;
CLASSIFICATION	
PHYSICAL AND CHEM	ICAL PROPERTIES
PHYSICAL STATE	pale yellow oily liquid
MELTING POINT	> 13 C
BOILING POINT	> 290 C
SPECIFIC GRAVITY	0.89 - 0.899
Solubility in water	insoluble
рН	
VAPOR DENSITY	
AUTOIGNITION	
NFPA RATINGS	Health: 1 ; Flammability: 1; Reactivity: 0
REFRACTIVE INDEX	
FLASH POINT	180 C
STABILITY	Stable under ordinary conditions.
GENERAL DESCRIPTIO	N & APPLICATIONS
Fatty Acids are alipho	tic carboxylic acid with varying hydrocarbon lengths at one end of the chain joined to
(-COOH) group at the	e other end. The general formula is R-(CH ₂)n-COOH. Fatty acids are predominantly unbr
with even numbers of	carbon atoms between 12 and 22 carbons long react with glycerol to form lipids (fat-s
of living colle) in plants, animals, and microorganisms. Eathy goids all have commen names respondentiable likely	

of living cells) in plants, animals, and microorganisms. Fatty acids all have common names respectively lilk la (C14), palmitic (C16), stearic (C18), oleic (C18, unsaturated), and linoleic (C18, polyunsaturated) acids. The acids have no solid bonds, while oleic acid is an unsaturated fatty acid has one solid bond (also described o polyunsaturated fatty acids like linolenic acid contain two or more solid bonds. Lauric acid (also called Dode main acid in coconut oil (45 - 50 percent) and palm kernel oil (45 - 55 percent). Nutmeg butter is rich in myris Tetradecanoic acid) which constitutes 60-75 percent of the fatty-acid content. Palmitic acid(also called He constitutes between 20 and 30 percent of most animal fats and is also an important constituent of most veg percent of palm oil). Saturated carboxylic acids (C1 – C10) are liquids whereas long chain saturated fatty ac long carbon chains form compact pile in a regular pattern with high van der waals attractions resulting in hig solid bonds are present in the fatty acid portion of the molecule, the fat is said to be unsaturated. Monounsc only one solid bond; polyunsaturated contains more than one solid bonds (up to an maximum of about six) v conjugated and can form geometric cis/trans isomers. Naturally occuring unsaturated fatty acids are liquids cis- geometrical configuration which twists molecular structure (the kink of the cis form); can not pack closel points. Unsaturated fatty acids in the kinked, cis form are much more common in cells than the trans form co direction without a pronounced kink. The cis form of unsaturated fatty acids are more fluid at biological tem more abundant in living organisms. Fatty acids are named by the number of carbon atoms n and the numb as (n:m). The system for naming solid bond position is to indicate the first solid bond in the carbon backbone opposite end from the carboxyl group. The terminal carbon atom is called the omega carbon atom. The ter omega-6" signifies that their single solid bond is occured at carbon number 3 or 6 respectively counted from omega carbon. Human bodies are not capable of synthesizing omega-3 and omega-6 fatty acids which are fatty acids must be obtained through the diet. (These fatty acids were designated as "Vitamin F", until it was must be classified with the fats.) Fatty acids are converted to enegy through the process called fatty acid ov Fatty acids are used as basic building blocks of biological membranes, for long-term energy storage (the mo triglycerides) as well as for the precursors of eicosanoid hormones.

SALES SPECIFICATION		
APPEARANCE	pale yellow oily liquid	
COMPOSITION	C14 2% + C16 10% + C18:1 70% +C18:2 11% + C18:3 2%	
ACID VALUE	195 - 205	
IODINE VALUE	95 max	
SAP VALUE	197 - 205	
UN SAP	1.5% max	
TITER	10 C max	
COLOR	2.0Y 2.5R (5.25" Lovibond Cell)	
TRANSPORTATION		
PACKING	180kgs in drum	
HAZARD CLASS	Not regulated	
UN NO.		
OTHER INFORMATION		
Hazard Symbols: XI, Risk Phrases: 36/37/38, Safety Phrases: 28A-37-45		