

Distillate Fatty Acids

1.- Product

Fatty acid – Fatty acid vegetal origin

2.- Composition

A variable (with permissible values) mixture of fatty acids generally conforming to that obtained from natural soybean oil.

Fatty acids ranging from C10 to C18 and unsaturated C18 fatty acids

3.- Chemical and Physical properties

<u>Physical state:</u>	Liquid above 30 °C
<u>Appearance:</u>	Pale yellow
<u>Odour:</u>	Characteristic odour
<u>Vapour pressure:</u>	< 1mm at 20°C
<u>Specific gravity:</u>	0.90 (at 20 °C)
<u>Boiling range:</u>	240 – 270 °C at 760 mm
<u>Solubility in water (20°C):</u>	Insoluble
<u>Melting range:</u>	22 to 26 °C

4.- Reactivity data

<u>Chemical stability:</u>	Product stable under the prescribed storage conditions.
<u>Incompatibility with substances:</u>	Strong oxidising agents
<u>Reactivity and under conditions:</u>	Heating as such or in the presence of any metals
<u>Hazardous decomposition:</u>	Acrid smoke and irritating fumes of carbon
<u>Hazardous polymerization:</u>	Will not occur

5.- Toxicological properties

<u>Skin contact:</u>	Mild irritation
<u>Toxicity:</u>	Non toxic
<u>Skin absorption:</u>	Slight
<u>Eye contact:</u>	Slight transient irritation
<u>Inhalation:</u>	Irritant to mucous membrane (only when heated)
<u>Ingestion:</u>	Rat LD50 > 22 gm/kg
<u>Effect to acute and chronic exposure to material:</u>	The extensive use of fatty acid in industry have not been accompanied by any reports of injury.
<u>Irritancy of material:</u>	Slight

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6.- Hazard identification

<u>Inhalation:</u>	Slight (vapour causes irritation only when heated)
<u>Contact rating:</u>	Mild
<u>Flammability rating:</u>	Slight
<u>Reactivity rating:</u>	Slight
<u>Storage:</u>	General

7.- First aids Measures

<u>Eyes:</u>	Irrigate the eyes with plenty of water for at least 15 min.
<u>Skin:</u>	Remove contaminated clothing and wash exposed area with plenty of water of followed by soap and water for at least 15 min.
<u>Inhalation:</u>	Take person into fresh air and allow to rest
<u>Ingestion:</u>	Drink plenty of water and 2-3 cupfuls of milk

8.- Fire fighting measures

<u>Flammability:</u>	Flammable and combustible in contact with heat or fire
<u>Means of extinction:</u>	Use water spray, alcohol foam. Dry chemical, or carbon dioxide. Use water to keep fire exposed container cool
<u>Flash point:</u>	160 °C
<u>Auto ignition:</u>	325 °C
<u>Hazarous combustion:</u>	None

9.- Accidental release measures

<u>Personal protection:</u>	High risk of slipping as product is a liquid.
<u>Leak and spill procedures:</u>	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 and ground waters.

10.- Handling and storage measures

<u>Handling:</u>	Use full protective gear. Protect containers against physical damage / direct sunlight / water.
<u>Storage:</u>	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.