



TECHNICAL DATA SHEET
LITTLE FALLS PLANT – MN/US
VERSION 1.0
09/05/2025

Generic Name: C8-C10 CAPRYLIC-CAPRIC

CAS Number: 68937-75-7

EINECS Number: 273-086-2

SPECIFICATION:

ANALYSYS	UNIT	RANGE
Acid value	mg KOH/g	345 - 372
Appearance	-	Pale Yellow Liquid
Iodine value	-	0.5 Max
Saponification value	mg KOH/g	346 - 373
Colour in Lovibond	5 ¼" cell	Y=3.0, R=0.8 Max
Moisture	%	< 025
CARBON CHAIN DISTRIBUTION		
C6	%	1.0 Max
C8	%	52 - 58
C10	%	42-46
C12	%	1.5 Max
Others	%	1.0 Max

PRODUCT DESCRIPTION/APPLICATION

NUOL C8-C10 Caprylic-Capric is a Fatty Acid, also known as a mixture of caprylic (C8) and capric (C10) acids, is a naturally derived fatty acid blend typically obtained from coconut oil or palm kernel oil. This clear, colorless to pale yellow liquid is known for its mild odor and low molecular weight, which contributes to its excellent solubility in a variety of organic solvents. NUOL C8-C10 Caprylic-Capric is widely used in numerous industrial and consumer applications due to its versatile properties.

It is primarily used as a solvent and emulsifier in the formulation of personal care products, including creams, lotions, and shampoos, due to its ability to enhance the texture and stability of emulsions. It acts as a mild skin-conditioning agent, offering moisturizing benefits without causing irritation, making it suitable for sensitive skin formulations.

In the food and beverage industry, NUOL C8-C10 Caprylic-Capric is used as a flavor carrier, preservative, and antimicrobial agent. Its fatty acid content helps to inhibit the growth of certain bacteria and fungi, making it valuable in extending the shelf life of food products.

Additionally, NUOL C8-C10 Caprylic-Capric is employed in the pharmaceutical and health industries, particularly in the formulation of dietary supplements, where it is used as a medium-chain triglyceride (MCT) oil. MCTs are easily metabolized by the body, providing a quick source of energy, which has led to its popularity in weight management and ketogenic diets.

It is a highly versatile chemical compound with a wide range of applications across industries such as personal care, food, pharmaceuticals, and health supplements. Its natural origin, combined with its mild properties and effectiveness as a solvent, emulsifier, and antimicrobial agent, makes it a valuable ingredient in both commercial and industrial formulations. It is a 100% green product, making it a green choice for formulators.

HANDLING PRECAUTIONS:

When handling NUOL C8-C10 Caprylic-Capric, it is important to follow specific safety measures to minimize risks. Always wear appropriate personal protective equipment (PPE), such as gloves, goggles, and protective clothing, to prevent skin and eye contact. Ensure proper ventilation in the work area to avoid inhaling fumes or vapors. Store the chemical in a cool, dry place, away from direct sunlight and incompatible materials, such as strong oxidizers. In case of spills, clean the area promptly using suitable absorbent materials and dispose of waste according to local regulations. If accidental contact occurs, rinse affected areas thoroughly with water and seek medical attention if necessary. Always refer to the Safety Data Sheet (SDS) for detailed handling and emergency procedures.

NUOL C8-C10 Caprylic-Capric is flammable, so it should be kept away from open flames, sparks, or heat sources. Store the product in a cool, dry, well-ventilated area in properly labeled, sealed containers to prevent spills and contamination. In case of eye or skin contact, rinse immediately with plenty of water. If ingested or inhaled in large quantities, seek medical attention promptly. Keep away from possible contact with incompatible substances.

SHIPPING CLASSIFICATION

NUOL C8-C10 Caprylic-Capric is typically classified for shipping under the United Nations (UN) system. It is generally considered a non-hazardous substance, but specific shipping classifications may vary depending on the concentration, form, and region. As a corrosive or irritant substance in concentrated forms, it may require labeling and handling precautions during transportation. The chemical is usually classified under the shipping category "UN 3261 - Corrosive liquid, acidic, organic" if it meets the criteria for corrosivity. Proper documentation, including the Safety Data Sheet (SDS), must accompany shipments, and containers should be securely sealed and stored in a cool, dry place to prevent leaks or spills. Always check local and international regulations, such as those from the International Maritime Dangerous Goods (IMDG) Code or the U.S. Department of Transportation (DOT), for specific requirements.

Not regulated for transport. Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA – DGR.

REGULATORY STATUS

The components of this material are listed on the U.S. TSCA Inventory and the Canadian Domestic Substance List.

NUOL C8-C10 Caprylic-Capric is generally recognized as safe (GRAS) for use in food and cosmetic products in many countries, but its regulatory status can vary depending on the intended application and concentration. In the United States, it is regulated by the Food and Drug Administration (FDA) for use in food products, while in the European Union, it complies with EU regulations for food additives and cosmetic ingredients. For industrial uses, such as in manufacturing or as a chemical intermediate, NUOL C8-C10 Caprylic-Capric may be subject to regulations under the Toxic Substances Control Act (TSCA) in the U.S. and REACH in the EU. It is important to ensure that the chemical complies with local environmental, health, and safety laws, including classification and labeling requirements. Always consult the relevant safety data sheets (SDS) and regulatory authorities for specific compliance requirements in your region.

DELIVERY FORM

Liquid in road tanker, rail tank wagon, ISO-container, flex tank, IBC-container or 188 kgs net in steel drums.