



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

Generic Name: MCT - Medium Chain Triglycerides

CAS Number: 73398-61-5

EINECS Number: 277-452-2

SPECIFICATION:

ANALYSYS	UNIT	RANGE
Acid value	mg / g	Max 0.1
Iodine value	gI2/100g	Max 0.5
Saponification value	mg KOH/g	325 - 345
Hydroxyl Value	mg KOH/g	Max 5.0
Peroxide Value	meq/kg	Max 1.0
CARBON CHAIN DISTRIBUTION		
C8	%	55 - 65
C10	%	35 - 45
C12	%	Max 1.0

PRODUCT DESCRIPTION/APPLICATION

NUOL MCT Medium Chain Triglycerides are a group of fats composed of triglycerides with medium-length chains of fatty acids, typically ranging from 6 to 12 carbon atoms. NUOL MCT are primarily derived from palm kernel oil, where they make up a significant portion of the oil's fatty acid content. Unlike long-chain triglycerides (LCTs), NUOL MCT are rapidly absorbed and metabolized by the body, providing a quick and efficient source of energy. NUOL MCT is usually colorless, odorless, and liquid at room temperature, making it a versatile ingredient for various applications.

NUOL MCT are widely used in the food, health, and personal care industries due to their beneficial properties. In the food industry, NUOL MCT is commonly used as an ingredient in cooking, baking, and salad dressings, as well as a supplement in ketogenic, low-carb, and weight management diets. Its quick absorption provides a rapid source of energy and is often used by athletes and those seeking enhanced physical performance or mental clarity.

In the health and wellness sector, NUOL MCT is a popular supplement, particularly for those following ketogenic or high-fat, low-carb diets. It is believed to support weight loss, increase energy levels, and promote cognitive function by providing an alternative fuel source for the

brain. NUOL MCT is often added to smoothies, coffee (such as "bulletproof coffee"), and protein shakes.

It is also used in the cosmetic and pharmaceutical industries. Due to their moisturizing and non-greasy texture, NUOL MCT are included in skincare products like lotions, creams, and hair treatments. In the pharmaceutical field, NUOL MCT serve as an effective carrier oil for the delivery of active ingredients in oral or topical medications.

Furthermore, NUOL MCT are gaining popularity in the biodiesel industry as a renewable energy source due to their biodegradability and efficient conversion into fuel.

NUOL MCT are a versatile and valuable ingredient with applications across a wide range of industries, including food, health, cosmetics, and pharmaceuticals. Their quick energy release, ability to support metabolism, and skin-friendly properties make them highly beneficial for consumers and formulators alike. Whether used as a dietary supplement, in personal care products, or as a renewable energy source, NUOL MCT continues to be a sought-after ingredient for both their functional and health-promoting benefits.

HANDLING PRECAUTIONS:

When handling NUOL MCT, it is important to follow standard safety practices. Always wear appropriate personal protective equipment (PPE), including gloves, goggles, and protective clothing, to avoid skin and eye contact. Ensure the work area is well-ventilated to prevent inhalation of vapors, although NUOL MCT is typically not volatile at room temperature. Store it in a cool, dry place, away from heat and direct sunlight, and keep it away from strong oxidizers. In case of spills, clean up using an inert absorbent material and dispose of it in accordance with local regulations. If skin or eye contact occurs, wash the affected area with water and seek medical attention if necessary. Always consult the Safety Data Sheet (SDS) for detailed handling and emergency procedures.

SHIPPING CLASSIFICATION

NUOL MCT are generally classified as non-hazardous for shipping. They are not considered dangerous goods under the United Nations (UN) classification system. However, it is important to ensure proper packaging to prevent leaks or spills during transport. NUOL MCT should be securely sealed in suitable containers and transported in compliance with standard chemical shipping regulations. Documentation, including the Safety Data Sheet (SDS), should accompany shipments. Always verify shipping requirements with local and international regulations, such as the International Maritime Dangerous Goods (IMDG) Code or U.S. Department of Transportation (DOT), to ensure compliance with specific transport guidelines.

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 MCT are widely used in food, cosmetics, and pharmaceutical applications, and are generally considered safe when used according to regulatory guidelines. In the United States, NUOL MCT is approved by the Food and Drug Administration (FDA) as a food ingredient and is recognized as generally safe (GRAS) for consumption in food products. In the European Union, NUOL MCT is also permitted for use in food products and dietary supplements, subject to specific regulations for food safety and labelling. For cosmetic and pharmaceutical uses, NUOL MCT must comply with local regulations, including those set by the FDA and the European Medicines Agency (EMA). Always consult the relevant Safety Data Sheet (SDS) and local regulatory authorities to ensure compliance with applicable laws and safety standards.

DELIVERY FORM

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