



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

Generic Name: BUTYL LAURATE

CAS Number: 106-18-3

EINECS Number: 203-370-3

PRODUCT DESCRIPTION/APPLICATION

NUOL Butyl Laurate or butyl do decanoate is a fatty ester produced from palm kernel lauric fatty acids and biobutanol from ABE process. It is 100% green product used mainly in cosmetic applications.

Skin care: As a skin conditioner and fragrance component, isoamyl laurate is used in many skincare products. The UV filters in sunscreens and the pigments in cosmetics can both be easily dissolved by it. Without making the skin feel greasy or oily, it aids in softening and moisturizing the skin

Hair care: It functions as a hair conditioner in hair care products, making combing the hair easier and preventing buildup. It can also lighten anhydrous formulations.

SPECIFICATION

Appearance.....Colorless
Refractive index..... 1.433 to 1.439
Purity..... 99% minimum by GC
Acid value..... Below 0,5 mg koh/g

PRODUCTION PROCESS

The production processes are by esterification of lauric fatty acids with biobutanol using acid catalysts or using enzymatic process

Usually, the reaction temperature is below 130°C using chemical catalyst collecting water as by-products. Using enzymatic process, the temperature is below 60°C

There are no liquid or solid wastes coming out from the process.

HANDLING PRECAUTIONS:

It is recommended that polyol butyl laurate be handled in accordance with responsible industrial, maintenance and safety practices. This material is noncorrosive, and no toxicity associated to it.

SHIPPING CLASSIFICATION

NUOL Butyl Laurate (using renewable raw materials), Non-hazardous material.

REGULATORY STATUS

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

DELIVERY FORM

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

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