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"Dutch Boy"

PLASTICIZER
NL C-20

Di-2-ethylhexyl Sebacate



DUTCH BOY CHEMICALS

A Product Development of

NATIONAL LEAD COMPANY

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"Dutch Boy"®

PLASTICIZER NL C-20

"DUTCH BOY" NL C-20 is an exceptionally pure di-2-ethylhexyl sebacate. Its light color and clarity are outstanding. These properties, coupled with its efficient plasticizing action, make it highly desirable for use in polyvinyl chloride resins.

Table of Properties

Composition	Di-2-ethylhexyl Sebacate
Formula	$(CH_2)_8$ (COO – C_8H_{17})$_2$
Molecular Weight	426
Color (APHA)	25
Odor	Mild
Specific Gravity (25°C./25°C.)	0.913
Boiling Point (°C.)	248 at 9 mm.
Freezing Point (°C.)	33
Acidity (% as Acetic Acid)	0.02
Refractive Index (25°C.)	1.449
Flash Point (°F.)	410
Fire Point (°F.)	498
Viscosity, centipoises (25°C.)	19.6
Weight per Gallon	7.6 lbs.

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General Features

NL C-20 offers a combination of low temperature flexibility and low volatility characteristics in vinyl plastics not found in any other plasticizer. It also provides excellent hand and drape, as well as good weathering properties. NL C-20 exhibits good electrical properties and resistance to water extraction.

Specific Uses in Vinyl Resins

Calendered Compounds — NL C-20 imparts very desirable drape and good hand to calendered film and sheeting products, along with outstanding low temperature flexibility. The distinctive feature of NL C-20 is that these advantages are maintained throughout the service life of the product due to its low volatility and good aging characteristics.

Electrical Insulation — NL C-20 has good electrical properties and excellent resistance to water extraction in wire and cable insulation. The improved low temperature flexibility obtained with NL C-20 is especially valuable in electrical insulation which is designed for outdoor use. Its low volatility makes it especially adaptable for the extrusion of high temperature wire jacketing.

General Extrusion Compounds — The combination of high tensile strength, very good plasticizing efficiency, and excellent low temperature flexibility are the outstanding benefits derived from the use of NL C-20 in extrusion compounds.

Plastisols and Organosols — Advantage may be taken of the low volatility of NL C-20 in the high temperature curing of highly plasticized paste resin coatings. NL C-20 enhances the performance of these coatings by contributing outstanding low temperature flexibility and resistance to water extraction. It also provides unusually low viscosities and excellent package stability in plastisols.

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