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"Dutch Boy"
PLASTICIZER
NL A-54

*A New Phthalate Plasticizer for
Vinyl Resins*



DUTCH BOY CHEMICALS

A Product Development of
NATIONAL LEAD COMPANY

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"Dutch Boy" PLASTICIZER NL A-54

"DUTCH BOY" NL A-54 is a new phthalate plasticizer of high purity and uniform quality. It is a clear liquid of light color and is soluble in most of the common organic liquids. NL A-54 is a quality low cost plasticizer for vinyl chloride polymers and copolymers and other resinous systems.

Table of Properties

Composition	Phthalate Ester
Form	Liquid
Color (APHA)	75
Odor	None
Specific Gravity (25°C/25°C)	0.973
Free Point (°C)	31.7
Acidity (% as Acetic Acid)	0.04
Refractive Index (25°C)	1.482
Flash Point (°F)	115
Fire Point (°F)	165
Viscosity, centipoise (25°C)	77.1
Weight per Gallon	8.1 lbs.

General Features of NL A-54

"DUTCH BOY" NL A-54 is a general purpose primary plasticizer useful in most applications for vinyl plastics. It has good efficiency and volatility characteristics in vinyl stocks. The electrical properties of NL A-54 are almost equal to those

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obtainable with di-2-ethylhexyl phthalate (NE A-20). The low temperature flexibility is satisfactory for many vinyl products. Because of its purity and good chemical compatibility, NE A-51 will not react with most modifying agents used in vinyls, such as fillers, stabilizers, colorants and other plasticizers. NE A-51 is an economical primary plasticizer which can serve as the sole plasticizer in the formulation. If desired, it may also be blended with other plasticizers for specific requirements.

Applications in Vinyls

Calendered Products — NE A-51 is recommended for general purpose vinyl film and sheeting. Its plasticizing efficiency and volatility characteristics make NE A-51 useful not only for heavy sheeting applications, such as upholstery and parkbench covers, but also for the lighter gauge film as well. Its compatibility is excellent. In calendered formulations, NE A-51 may be used either alone or as the foundation for a plasticizer blend.

Extruded Products — NE A-51 contributes its good balance of properties to vinyl tubing, tubing and gasketing compounds. Its purity and good electrical properties recommend it for use in many types of economical vinyl wire and cable insulation. In extrusion applications, the good balance of volatility and low temperature characteristics of NE A-51 are added advantages.

Dispersion Resin Systems — Organosols and plastisols formulated with NE A-51 as the primary plasticizer have low initial viscosity which is maintained during storage. Coatings applied from plastisols compounded with NE A-51 are economical and have good stability and physical properties.

Other Uses

NE A-51 is compatible with nitrocellulose, ethyl cellulose, synthetic rubber, chlorinated rubber and other resins. It is an economical and efficient plasticizer which contributes low volatility to coatings based on these polymers.

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