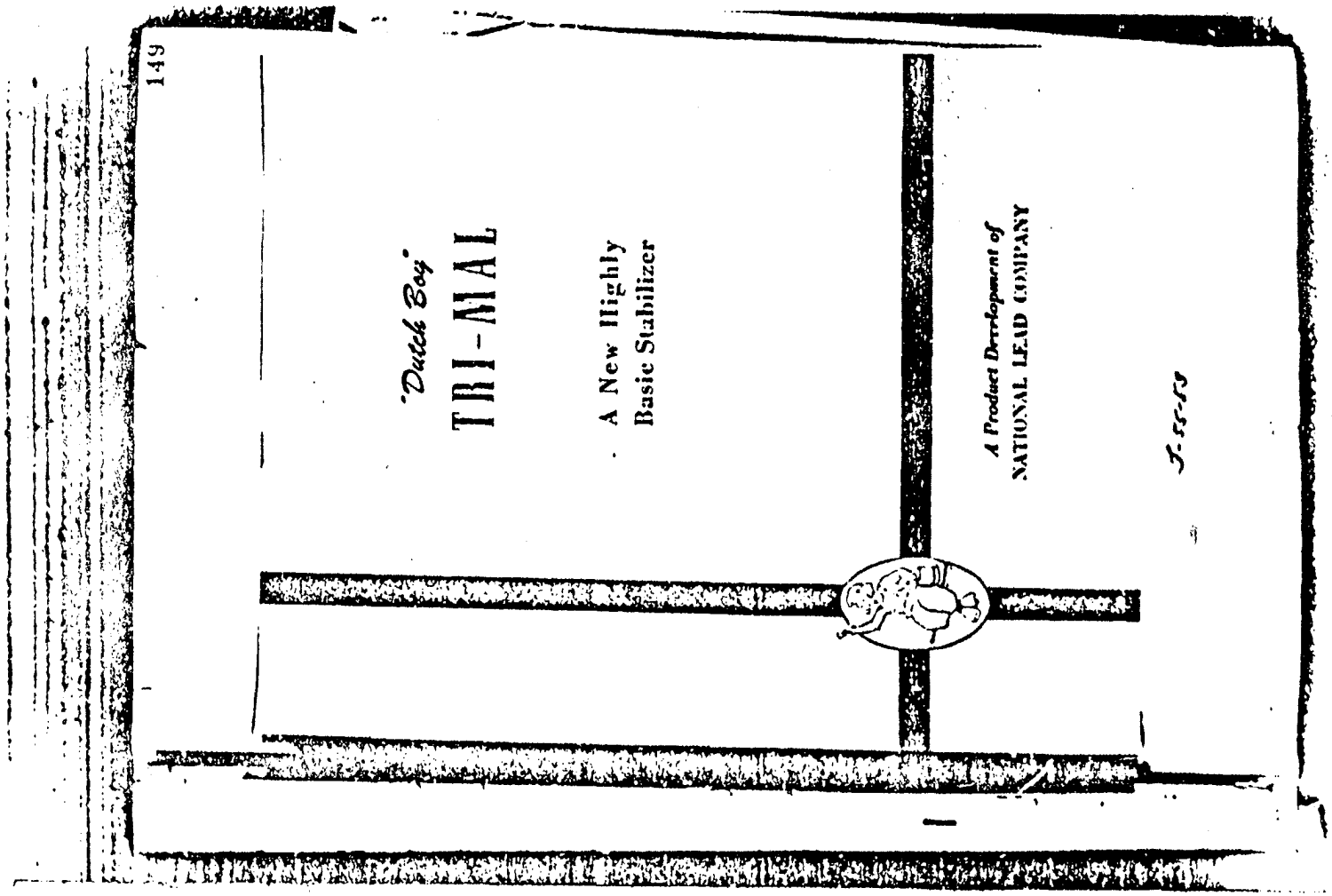
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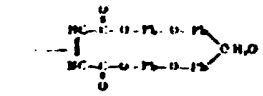
"Dutch Boy"

TRI-MAL

TRI-MAL, the monohydrated tribasic lead salt of maleic acid is a soft light yellowish green, crystalline powder. TRI-MAL is insoluble in water and all other common solvents. Its relatively high refractive index and good properties for heat and light stabilizing make it desirable for use in a number of organic products.

TRI-MAL is the most basic lead light stabilizing material which can be produced. It has a total lead content equivalent to 89% PbO, and its available basic lead content is 66.5%. TRI-MAL is structurally designed to be a selective ultraviolet light absorbing material. Thus its properties make it valuable in applications as both a light and heat stabilizing pigment for several industries.

Table of Properties

Composition	Tribasic lead maleate monohydrate
Formula	
Molecular Weight	1044
Form	Soft crystalline powder
Color	Yellowish green
Refractive Index (average)	2.08
Specific Gravity	6.0
Weight per Gallon	50 lb
Lead Oxide Content (% PbO)	88.5 - 89.0
Moisture (loss at 105° C)	0.05% max.
Fineness (Retained on No. 325 sieve)	0.1% max.
Solubility	Like most basic lead salts, TRI-MAL is insoluble in all common solvents.

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Uses

Vinyl Plastics—TRI-MAL has a relatively high refractive index and, accordingly, is desirable as a yellowish green pigmenting material in a wide variety of plastic formulations where stability to both light and heat is important. It imparts light fastness to the vinyl plastics in which it is used and its high degree of basicity makes it a fine heat stabilizer, as well.

Suggested Uses—TRI-MAL might also be adapted to the stabilizing of chlorinated paraffins, chlorinated polythene and other chlorine containing plastics that are unstable to heat and light. TRI-MAL is recommended as an excellent substituting agent for chlorosulfonated polythene.

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