

## MANALOX<sup>®</sup> 230

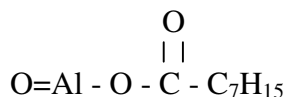
### THICKENING AGENT FOR RESIN SYSTEMS

#### DESCRIPTION

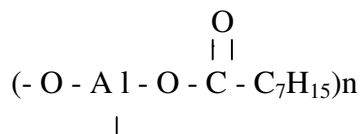
MANALOX 230 (OAO) is an **oxoaluminum acylate** based on **octoic acid** and is in a highly reactive form. It is provided as a solution in isopropyl **octoate ester** which is a by-product of the manufacturing process.

#### CHEMICAL FORMULA

It is theorized that the active ingredient in MANALOX 230 can be represented as follows:



or a linear polymer of the above such as:



#### PHYSICAL PROPERTIES

Appearance	Straw Colored Liquid
Specific Gravity (25°C)	1.01
Active Material	58 ± 1%
Aluminum Content	8.5 ± .1%
Flash Point (PMCC)	>142°F

#### USE INFORMATION

MANALOX 230 is a highly reactive gellant and reacts quite rapidly during high temperature cooks. For this reason it is recommended generally that it be incorporated into varnish solutions at about 250°F to avoid the grainy structures sometimes encountered at higher temperatures. The level of use varies according to the particular varnish formula and type of **gell** structure desired, but generally falls between 1.0 and 2.0%. MANALOX 230 is highly recommended for customers requiring short cycle times and/or those who are limited by lower temperature capabilities.