



# **STRUKTOL® TR 121**

**SLIP AGENT  
LUBRICANT  
DISPERSANT  
MOLD RELEASE AGENT**

## **COMPOSITION**

Unsaturated fatty primary amide derived from oleic acid.

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## **PROPERTIES**

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Acid Value (max.)	3
Amide Content (%)	98
Appearance	Light cream colored pastilles or beads
Color (Gardner '63, max.)	4
Iodine Value (max.)	90
Melting Point (°C)	66 - 72
Physiological Behavior	Refer to safety data sheet
Storage Stability	At least 2 years under normal storage conditions
Packaging	55 lb. PE bags

## **RECOMMENDATIONS FOR APPLICATION**

One of the major uses of oleamide is as a slip agent in polyethylene films. It functions by migrating to the film surface in a microscopic coating which reduces the coefficient of friction. In general, oleamide migrates more rapidly than erucamide (STRUKTOL® TR 131) but has lesser heat stability. Where this is not a disadvantage, oleamide costs are inherently lower.

This same property of uniform surface bloom permits STRUKTOL® TR 121 to be used in injection molding applications. It functions as both a lubricant and mold release agent. These properties are valuable in processing thermoplastic resins, thermoplastic elastomers (TPEs) and thermoset rubber systems. STRUKTOL® TR 121 may also function as a dispersant in concentrates by providing easier and more uniform letdown of the concentrated material. STRUKTOL® TR 121 is insoluble in water and has limited solubility in alcohols, ketones and aromatic solvents.

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## TECHNICAL DATA

### **ADDITION LEVELS**

Applications in the rubber area normally require 1 - 3 phr loading levels. For plastics, these loadings may vary from around 0.05% in films to more than 0.5% in mold release applications. For PVC 0.05 - 0.6%.

### **FDA STATUS**

STRUKTOL<sup>®</sup> TR 121 is sanctioned for use by the Food and Drug Administration (FDA) in a number of applications, listed in the following sections of Title 21 of the Code of Federal Regulations:

<b>175.105</b>	Adhesives	<b>179.45</b>	Packaging materials for use during the radiation preservation of prepackaged foods
<b>175.300</b>	Resinous and polymeric coatings (can and cements)	<b>181.28</b>	Release agents
<b>178.3910</b>	Surface lubricants used in the manufacture of metallic articles		

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