# TECHNICAL DATA

## STRUKTOL® TR 131

**SLIP AGENT**  
**LUBRICANT**  
**DISPERSANT**  
**MOLD RELEASE AGENT**

### COMPOSITION

Unsaturated primary amide derived from erucic acid.

### PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TYPICAL VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Off-white beads or pastilles</td>
</tr>
<tr>
<td>Amide Content (%)</td>
<td>99</td>
</tr>
<tr>
<td>Acid Value</td>
<td>3</td>
</tr>
<tr>
<td>Gardner Color</td>
<td>4</td>
</tr>
<tr>
<td>Iodine Value</td>
<td>78</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>79 - 85</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.93</td>
</tr>
<tr>
<td>Physiological Behavior</td>
<td>Refer to safety data sheet</td>
</tr>
<tr>
<td>Storage Stability</td>
<td>At least 2 years under normal storage conditions</td>
</tr>
<tr>
<td>Packaging</td>
<td>55 lb. PE bags</td>
</tr>
</tbody>
</table>

### RECOMMENDATIONS FOR APPLICATION

STRUKTOL® TR 131 is mainly used as a slip agent in polyolefin films, reducing the coefficient of friction. It is the agent of choice at higher extrusion temperatures because of its high heat stability and slower rate of migration to the surface compared with oleamides.

The slower rate of migration is also an advantage when films are printed, sealed or laminated shortly after extrusion. Its low odor makes it extremely suitable for food contact applications.

STRUKTOL® TR 131 is also used as a release agent in various polymer systems, and as a dispersant in color concentrates and printing inks. In PVC plastisols for screw closures, it reduces the torque and facilitates release.

STRUKTOL® TR 131 is also used as a process aid or lubricant in thermoplastic elastomers (TPEs), thermoplastic resins and thermoset rubber systems. The properties it imparts to the surface may assist in subsequent operations such as parts assembly.

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The information herein is believed to be reliable, but is presented without guarantee or warranty, express or implied. Nothing contained herein is to be construed as a recommendation for any use which is in violation of an existing patent.
Adding Levels

- Plastics: 0.05 – 0.5%
- PVC: 0.3 – 0.5%
- Elastomers: 1 – 3 phr

FDA STATUS

STRUKTOL® TR 131 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:

- 175.105 Adhesives
- 176.180 Components of paper and paperboard in contact with dry food
- 177.1200 Cellophane
- 177.1350 Ethylene-vinyl acetate copolymers
- 178.3860 Release agents (Polymeric resins and petroleum waxes)
- 179.45 Packaging material for use during the irradiation of prepackaged foods

(01/09/2015)DAB/rca

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