Methyl tin stabilizer

Product Description
Methyl tin stabilizer ZT-1181 is a high efficiency, liquid, sulfur containing, methyl tin for demanding rigid PVC processes. ZT-1181 provides excellent early color hold and long-term processing stability. ZT-1181 also provides outstanding clarity in rigid PVC clear applications.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
<th>CAS No</th>
<th>EC No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl tin (2-ethylhexylmercaptoacetate)</td>
<td>71-81%</td>
<td>57583-35-4</td>
<td>260-829-0</td>
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<tr>
<td>Methyltin tris(isooctyl thioglycollate)</td>
<td>19-29%</td>
<td>57583-34-3</td>
<td>260-828-5</td>
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</tbody>
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Typical Physical Properties
Physical Form: Clear Oily Liquid
Color (Pt-Co): ≤50
Viscosity (25°C, Cps): 20~80
Specific Gravity (20°C): 1.17~1.19
Refractive Index (25°C): 1.51
Sulfur content (%): 11.5~12.5
Tin content (%): 19±0.5

Standard Packaging
220 kg steel or 225 kg plastic drum
Non-returnable plastic tote

Product Benefits
1. Excellent early color hold and outstanding dynamic long-term stability
2. Outstanding versatility allow it to be formulated for most of demanding PVC applications —
   weatherable profile extrusion, consistent density foam sheet, high shear injection molded fitting,
   and high output siding extrusion.
3. Perfect stabilizer for clear bottle blow molding and calender film.

Typical Formulations
The formulations listed below show typical use levels:
1. Weatherable Profile Extrusion
   PVC Resin (K=68) 100.0 phr
   Acrylic Impact modifier 5.0
   Processing aid (Med. Mw) 1.0
   Calcium Stearate 1.4
   EBS Wax 1.4
   OPE Wax 0.1
   TiO2 9.0
   ZT-1181 1.2
## METHYL TIN STABILIZER ZT-1181

### 2. Injection Molding – fitting
- PVC Resin (K=58 ~ 62) 100.0 phr
- Processing aid (Med. Mw) 1.2
- Impact Modifier 2.0
- Calcium Stearate 1.2
- Paraffin Wax (165º F MP) 1.0
- Calcium Carbonate (UFT eq) 3.0
- TiO2 As needed
- **ZT-1181 1.5**

### 3. Siding Capstock
- PVC Resin (K=68) 100.0 phr
- Acrylic Impact Modifier 4.0
- Processing aid (Med. Mw) 1.0
- Lub. Processing aid 0.5
- Calcium Stearate 1.2
- Paraffin Wax (165º F MP) 1.0
- TiO2 10.0
- Pigments As needed
- **ZT-1181 1.2**

### 4. Clear Bottle
- PVC Resin (K=58~62) 100.0 phr
- Processing aid (Med. Mw) 1.5
- MBS Impact Modifier 10.0
- Internal Lubricant 1.5
- External Lubricant 1.0
- Toner As Needed
- **ZT-1181 1.5**

Prospective clients should evaluate ZT-1181 in their own laboratories to establish optimum conditions for use in their processes and applications. Cosutin technical team can assist fine tuning the formulation to your application requirements.

### Storage
Indoor storage is recommended. Use stainless steel piping, valves, pumps, fittings and storage tank.

### Safety Information
Before handling, read and understand the Material Safety Data Sheet for additional information on personal protective equipment and for safety, health and environmental information.

Cosutin is not an end-use manufacturer of product. Development of a final formulation, testing, application, and ultimate performance of the end-use product is fully the responsibility of the formulator. The suggestions and data are based on knowledge that we believe reliable. Cosutin makes no warranties, either expressed or implied, concerning the final end-use product. Cosutin expressly disclaims any implied warranty of fitness for a particular purpose.