Methylene Bis Thiocyanate, MBT

Chemical name: Methylene Bis (Thiocyanate)
Formula: CH$_2$(SCN)$_2$
CAS Number: 6317-18-6
MW: 130.2

General & Use:
MBT is a formulation grade biocide used in the preparation of various products. The formulated MBT is effective for the control of bacteria, algae, yeast and fungi in industrial water systems and paper mill waters.

Typical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay (weight %)</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>Melting Range °C</td>
<td>101</td>
<td>105</td>
</tr>
<tr>
<td>Specific Gravity at 20°C</td>
<td>1.5</td>
<td></td>
</tr>
</tbody>
</table>

Flammability and Explosivity:
MBT will burn in fires, in which (at high temperatures) it will decompose exothermically into oxides.

Toxicity:
MBT is toxic if ingested and very toxic if inhaled. It is corrosive to the eyes and a moderate irritant to the skin. MBT is very toxic to aquatic organisms.

Packaging:
MBT is supplied in 50 kg/100 lb net fiber drums. Other packaging types available on demand.

Solubility

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Solubility g/100 ml water</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°C</td>
<td>0.5</td>
</tr>
<tr>
<td>25°C</td>
<td>43.7</td>
</tr>
</tbody>
</table>

Stability
MBT is stable under normal conditions, but darkens with rising temperature.

Reactivity
MBT reacts violently with strong oxidizers and bases. Hazardous decomposition products include carbon dioxide, sulfur dioxide and nitrogen oxides.

Storage and Handling:
Store in the original tightly closed containers, in dry, well-ventilated areas, away from energy sources, strong bases and strong oxidizing agents.
For more information about our products and to place an order, please contact one of our regional sales offices.

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