**PRODUCT DATA SHEET**

**Indium Acetate**

**In(CH$_3$COO)$_3$**

**Introduction**

**Indium acetate** is a white powder that is freely soluble in mineral acids. It consists of needle-shaped crystals, which decompose to indium oxide upon heating. **Indium acetate** is available in the grades listed below.

**Properties**

<table>
<thead>
<tr>
<th>Chemical Formula</th>
<th>In(CH$_3$COO)$_3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>291.94</td>
</tr>
</tbody>
</table>

**General Description**

- White powder with a characteristic acetic odor
- Needle-shaped crystalline morphology

**Uses**

- InP quantum dots (precursor)
- Chemical synthesis (precursor)
- Alkaline battery chemistries (reduce outgassing and improve efficiency)

**Purity**

4N5 (99.995%)

**Solubility**

- Freely soluble in mineral acids
- Also soluble in carboxylic acids at elevated temperatures

**Tap Density**

<1g/cc

**Indium Percentage**

Available in 3 grades, with In % ranges as shown in table below

<table>
<thead>
<tr>
<th>Indium Acetate Grade</th>
<th>In %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>41.5–44.5%</td>
</tr>
<tr>
<td>Premium</td>
<td>44.5–45.5%</td>
</tr>
<tr>
<td>Premium Plus</td>
<td>45.0–46.0%</td>
</tr>
</tbody>
</table>

Note: Because the indium acetate produced is basic acetate, it will contain more indium as metal than theoretical (39.3%).

**Standard Packaging for Powder**

- Quantity*: 1.25kg 3.8 liter plastic (HDPE)
- 0.33kg 1 liter plastic (HDPE)

*All package sizes contain suitable desiccant. Packaging in other sizes or in glass may be available upon request.

**Storage and Shelf Life**

**Indium acetate** should be stored at room temperature and the container kept tightly sealed. **Indium acetate** has a shelf life of 12 months.

**Safety Data Sheets**

The SDS for this product can be found online at [http://www.indium.com/sds](http://www.indium.com/sds)

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