

# **Technical Data Sheet (TDS)**

## **Diethylaluminum Chloride (DEAC)**

Prepared by Tuoda Industry Limited

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### Product Description

Diethylaluminum Chloride (DEAC) is a highly reactive, colorless to yellow liquid. It is widely used as a catalyst component in polymerization reactions and as an alkylating agent in organic synthesis. DEAC reacts violently with water and ignites spontaneously in air.

### Applications

- Catalyst component in the polymerization of olefins.
- Alkylating agent in organic synthesis.
- Specialty chemical intermediate in fine chemical production.

### Chemical Information

<b>Chemical Name:</b>	Diethylaluminum Chloride
<b>Chemical Formula:</b>	C <sub>4</sub> H <sub>10</sub> AlCl
<b>CAS No.:</b>	96-10-6
<b>EINECS/ELINCS No.:</b>	202-472-7
<b>Molecular Weight:</b>	108.56 g/mol

### Specifications

<b>Appearance</b>	Clear to yellow liquid
<b>Purity</b>	>= 95%
<b>Aluminum Content</b>	approximately 22-24 wt%
<b>Density at 20°C</b>	0.901 g/cm <sup>3</sup>

### Typical Properties

<b>Freezing Point</b>	below -20°C
<b>Boiling Point</b>	185°C (decomposes)
<b>Flash Point</b>	Not available
<b>Solubility</b>	Reacts violently with water

### Packaging

Available in ASME-certified pressure containers, ISO tanks, or customized packaging upon request, compliant with IMDG regulations.

### Storage and Handling

- Store in tightly sealed containers under inert gas (nitrogen or argon).
- Avoid exposure to air and moisture.
- Handle under strict inert conditions in a well-ventilated area.

### Safety and Regulatory Information

- Classified as pyrophoric and water-reactive under GHS.
- Refer to the MSDS for detailed safety handling procedures.
- Compliant with TSCA (US), EINECS (EU) listings.

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