

Material Safety Data Sheet (MSDS)

Diethylaluminum Chloride (DEAC)

Prepared by Tuoda Industry Limited

Lushang Phoenix Square, Jinan, Shandong & 250100 China

Tel: +86-531-88897198 | Email: info@tuodaindus.com

Website: www.tuodaindus.com

1. Identification

Product Name: Diethylaluminum Chloride (DEAC)
CAS No.: 96-10-6
EINECS/ELINCS No.: 202-472-7
Recommended Use: Catalyst component for polymerization, alkylation agent.
Uses Advised Against: Food, drug, pesticide, or biocidal product use.
Supplier: Tuoda Industry Limited
Emergency Telephone (24H): +86 13589106478 (WhatsApp)

2. Hazard(s) Identification

Classification (GHS/OSHA 29 CFR 1910.1200):

- Flammable liquids (Category 2)
- Substances/mixtures which, in contact with water, emit flammable gases (Category 1)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)

Signal Word: Danger

Hazard Statements:

- Highly flammable liquid and vapor.
- Reacts violently with water releasing flammable gases.
- Causes severe skin burns and eye damage.
- May cause respiratory irritation.

3. Composition/Information on Ingredients

Diethylaluminum Chloride

CAS No.: 96-10-6

4. First-aid Measures

Inhalation: Remove to fresh air. Seek immediate medical attention.

Skin Contact: Brush off dry particles. Rinse thoroughly with cool water for at least 15 minutes. Seek medical attention.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Seek medical attention.

5. Fire-fighting Measures

Suitable Extinguishing Media: Dry sand, dry chemical, CO₂. Do not use water or foam.

Hazards: Reacts violently with water, forms flammable gases.

Protective Equipment: Self-contained breathing apparatus, full protective gear.

6. Accidental Release Measures

Personal Precautions: Evacuate area. Use protective equipment. Remove ignition sources.

Environmental Precautions: Prevent release to environment.

Methods for Cleanup: Cover with dry inert material (sand), collect and seal under inert gas.

7. Handling and Storage

Handling: Use under inert atmosphere. Avoid water, moisture, and air. Ground all equipment.

Storage: Store in tightly sealed containers under inert gas in a dry, ventilated area.

8. Exposure Controls / Personal Protection

Engineering Controls: Fume hood, inert gas blanket.

Personal Protective Equipment:

- Eyes: Goggles (EN166)
- Skin: Resistant gloves
- Respiratory: Approved respirator (EN149/NIOSH)

9. Physical and Chemical Properties

Appearance	Clear to yellow liquid
Density at 20°C	0.901 g/cm ³
Freezing Point	< -20°C
Boiling Point	185°C (decomposes)
Flash Point	Not available
Solubility	Reacts violently with water

10. Stability and Reactivity

Reactivity: Reacts violently with water and air.

Stability: Stable under inert gas.

Incompatible Materials: Water, oxidizing agents.

Decomposition Products: Aluminum oxides, hydrochloric acid.

11. Toxicological Information

Acute Toxicity: Corrosive effects dominate.

Inhalation: Respiratory irritation.

Skin: Severe burns.

Eyes: Severe damage.

Ingestion: Burns to gastrointestinal tract.

Carcinogenicity: Not classified.

STOT: Respiratory system.

12. Ecological Information

Ecotoxicity: Not fully assessed.

Persistence: Reacts readily with water.

Bioaccumulation: Not expected.

13. Disposal Considerations

Dispose of waste under inert gas in accordance with local regulations.

14. Transport Information

UN Number	UN3394
Proper Shipping Name	Organometallic substance, liquid, pyrophoric, water-reactive
Hazard Class	4.2 (Pyrophoric) / 4.3 (Water-reactive)

Packing Group	I
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15. Regulatory Information

TSCA (US): Listed

EINECS (EU): Listed

REACH: Use restricted.

16. Other Information

Prepared By: Safety & Compliance Department, Tuoda Industry Limited

Email: info@tuodaindus.com, Website: www.tuodaindus.com

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Disclaimer: The information herein is accurate to the best of our knowledge. It is provided for safety guidance and does not constitute a warranty.