

# **Material Safety Data Sheet (MSDS)**

## **Ethylaluminum Sesquichloride (EASC)**

Prepared by Tuoda Industry Limited

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## 1. Identification

<b>Product Name:</b>	Ethylaluminum Sesquichloride (EASC)
<b>CAS No.:</b>	563-43-9
<b>EINECS/ELINCS No.:</b>	209-251-7
<b>Recommended Use:</b>	Catalyst component for polymerization, alkylation agent.
<b>Uses Advised Against:</b>	Food, drug, pesticide, or biocidal product use.
<b>Supplier:</b>	Tuoda Industry Limited
<b>Emergency Telephone (24H):</b>	+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

Ethylaluminum Sesquichloride

CAS No.: 563-43-9

## 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, CO<sub>2</sub>. 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

<b>Appearance</b>	Clear to yellow liquid
<b>Density at 20°C</b>	0.980 g/cm <sup>3</sup>
<b>Freezing Point</b>	-60°C
<b>Boiling Point</b>	150-160°C (decomposes)
<b>Flash Point</b>	Not available
<b>Solubility</b>	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, hydrogen chloride gas.

## 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

<b>UN Number</b>	UN3394
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<b>Proper Shipping Name</b>	Organometallic substance, liquid, pyrophoric, water-reactive
<b>Hazard Class</b>	4.2 (Pyrophoric) / 4.3 (Water-reactive)
<b>Packing Group</b>	I

### 15. Regulatory Information

TSCA (US): Listed

EINECS (EU): Listed

REACH: Use restricted.

### 16. Other Information

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