

Technical Data Sheet (TDS)

Ethylaluminum Sesquichloride (EASC)

Prepared by Tuoda Industry Limited

Lushang Phoenix Square, Jinan, Shandong & 250100 China

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

Website: www.tuodaindus.com

Product Description

Ethylaluminum Sesquichloride (EASC) is a highly reactive, clear to yellow liquid. It is used extensively as a catalyst component in polymerization reactions and as an alkylating agent in organic synthesis. EASC reacts violently with water and ignites spontaneously in air.

Applications

- Catalyst for the polymerization of olefins.
- Alkylating agent in organic synthesis.
- Intermediate in specialty chemical production.

Chemical Information

Chemical Name:	Ethylaluminum Sesquichloride
Chemical Formula:	C ₄ H ₉ AlCl _{1.5} (empirical)
CAS No.:	563-43-9
EINECS/ELINCS No.:	209-251-7
Molecular Weight:	approx. 121 g/mol

Specifications

Appearance	Clear to yellow liquid
Purity	>= 95%
Aluminum Content	approximately 20-22 wt%
Density at 20°C	0.980 g/cm ³

Typical Properties

Freezing Point	-60°C
Boiling Point	150-160°C (decomposes)
Flash Point	Not available
Solubility	Reacts violently with water

Packaging

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

Storage and Handling

- Store tightly sealed under inert atmosphere (nitrogen or argon).
- Avoid exposure to air and moisture.
- Handle in a well-ventilated area with appropriate safety equipment.

Safety and Regulatory Information

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

Disclaimer

This document is intended for informational purposes only. Tuoda Industry Limited makes no warranties regarding suitability for specific applications. Verification for regulatory compliance remains the responsibility of the customer.