



SAFETY DATA SHEET

Section 1 - Product and Company Identification

Product: Alumisol Hardener
Version #: Version #1
Date: July 1, 2015
CAS #: Non-Applicable
Product Use: Mold Making and Casting
Manufacturer/Supplier:
Company Name: Alumilite
Company Address: 315 E. North St.
Kalamazoo, MI 49007

Emergency Telephone Number: Chemtrec 1-800-424-9300

Section 2 - Hazards Identification

2.1 GHS Classification

<i>Health</i> Not Classified	<i>Environmental</i> Not Classified	<i>Physical</i> Not Classified
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2.2 GHS Signal Word, Hazard Statement, Symbol

Pictograms by CLP/GHS: Not Required
Pictograms by DPD: Not Required
Signal Word: Not Required

Hazard Statements

This product is non-hazardous, thus no specific warnings are required.

Precautionary Statements

Observe good industrial hygiene practices. Wash hands after handling. Store away from incompatible materials. Dispose of waste and residues in accordance with local authority requirements.

Section 3 - Composition / Information on Ingredients

Chemical Name	CAS Number	%
Zinc Chloride	7646-85-7	< 0.1
Other components below reportable levels		90 - 100

Section 4 – First Aid

Eyes: Rinse with water. Get medical attention if irritation develops and persists. Direct contact with eyes may cause temporary irritation.
Skin: Wash off with soap and water. Get medical attention if irritation develops and persists.
Ingestion: Rinse mouth. Get medical attention if symptoms occur.
Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Section 5 – Fire Fighting Measures

Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards Arising From the Chemical: During fire, gases hazardous to health may be formed.

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Special Protective Equipment and Precautions for Firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire Fighting Equipment/Instructions: Move containers from fire area if you can do so without risk.

Specific Methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General Fire Hazards: No unusual fire or explosion hazards noted.

Section 6 – Accidental Release Measures

General: Keep unnecessary personnel away. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Waste Disposal: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Section 7 – Handling and Storage

General: Observe good industrial hygiene practices.

Storage: Store in original tightly closed container. Store away from incompatible materials.

Section 8 – Exposure Controls & Personal Protection

Occupational Exposure Limits:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Zinc Chloride (CAS 7646-85-7)	PEL	1 mg/m ³	Fume

US. ACGIH Threshold Limit Values

Zinc Chloride (CAS 7646-85-7)	STEL	2 mg/m ³	Fume
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US. NIOSH: Pocket Guide to Chemical Hazards

Zinc Chloride (CAS 7646-85-7)	STEL	2 mg/m ³	Fume
	TWA	1 mg/m ³	Fume

Clothing: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear suitable protective clothing. Wear appropriate thermal protective clothing, when necessary.

Eyes: Wear safety glasses with side shields (or goggles).

Respiration: In case of insufficient ventilation, wear suitable respiratory equipment.

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Section 9 – Physical & Chemical Properties

Color: White

Form: Liquid

Odor: Slight

Specific Gravity: 1.17

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pH: N/A
Melting point/freezing point: -54.4 °F
Boiling point/boiling range: 721.4 °F
Flash Point: 460.4 °F
Vapor Pressure: 0.00003 hPa
Density: 9.8 lbs/gal
VOC (Weight %): 0.0004 % estimated

Section 10 – Stability & Reactivity

Stability: Stable
Hazardous Decomposition Products: No hazardous decomposition products are known.
Incompatible Materials: Strong oxidizing agents.
Conditions to Avoid: Contact with incompatible materials.

Section 11 – Toxicological Information

Inhalation: Prolonged inhalation may be harmful.
Skin Contact: No adverse effects due to skin contact are expected.
Eye Contact: Direct contact with eyes may cause temporary irritation. Direct contact with eyes may cause temporary irritation.
Ingestion: Expected to be a low ingestion hazard.

Acute toxicity:

Components	Species	Test Results
Zinc Chloride (CAS 7646-85-7)		
Inhalation:		
Acute		
LC50	Rat	<= 1.975 mg/l, 10 Minutes
Oral		
LD50	Guinea pig	200 mg/kg
	Mouse	350 mg/kg
	Rat	350 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Eye Irritation: Direct contact with eyes may cause temporary irritation.

Section 12 – Ecological Information (Non-Mandatory)

No applicable data for this section

Section 13 – Disposal Information (Non-Mandatory)

Waste Disposal: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Container Disposal: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14 – Transportation Information (Non-Mandatory)

Not regulated by the Department of Transportation



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Section 15 – Regulatory Information (Non-Mandatory)

Hazardous Health Rating: Health: 0 Fire: 0 Reactivity: 0

Section 16 – Other Information

No data available

To the best of our knowledge, the information contained herein is accurate. However, Alumilite does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although we have described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist. While the descriptions, designs, data, and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Alumilite hereunder are given gratis and Alumilite assumes no obligation or liability for the description, designs, data, and information given or results obtained, all such being given and accepted at your risk.

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