

## SAFETY DATA SHEET

### Section 1 - Product and Company Identification

**Product:** Alumisol Heat Stabilizer  
**Version #:** Version #1  
**Date:** July 9, 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

**Physical Hazards:** Not classified.  
**Health Hazards:** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Specific target organ toxicity, repeated exposure Category 1  
Hazardous to the aquatic environment, acute hazard Category 1  
**Environmental Hazards:** Hazardous to the aquatic environment, long-term hazard Category 1  
**OSHA Defined Hazards:** Not classified.

#### 2.2 GHS Signal Word, Hazard Statement, Symbol

**Pictograms by CLP/GHS:**  
**Signal Word:**



**Danger**

##### *Hazard Statements*

Causes skin irritation. Causes serious eye damage.  
Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic aquatic life with long lasting effects.

##### *Precautionary Statements*

Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage. Store away from incompatible materials. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental information:** 68.5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 68.5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

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### Section 3 - Composition / Information on Ingredients

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**Mixtures:**

Chemical Name	CAS Number	%
White Mineral Oil	8042-47-5	5 - < 10
Benzoic Acid	65-85-0	3 - < 5
Zinc Chloride	7646-85-7	3 - < 5
Other components below reportable levels		80 - < 90

### Section 4 – First Aid

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<b>Eyes:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Skin:</b>	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Ingestion:</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Inhalation:</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Symptoms/Effects:</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

### Section 5 – Fire Fighting Measures

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<b>Extinguishing Media:</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable Extinguishing Media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific Hazards Arising From the Chemical:</b>	During fire, gases hazardous to health may be formed.
<b>Special Protective Equipment and Precautions for Firefighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire Fighting Equipment/Instructions:</b>	Move containers from fire area if you can do so without risk.
<b>Specific Methods:</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General Fire Hazards:</b>	No unusual fire or explosion hazards noted.

### Section 6 – Accidental Release Measures

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<b>General:</b>	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.
<b>Waste Disposal:</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

### Section 7 – Handling and Storage

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<b>General:</b>	Provide adequate ventilation. Do not breathe mist or vapor. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
<b>Storage:</b>	Store in original tightly closed container. Store away from incompatible materials.

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### 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
White Mineral Oil (CAS 8042-47-5)	PEL	5 mg/m <sup>3</sup>	Mist
Zinc Chloride (CAS 7646-85-7)	PEL	1 mg/m <sup>3</sup>	Fume

##### US. ACGIH Threshold Limit Values

White Mineral Oil (CAS 8042-47-5)	TWA	5 mg/m <sup>3</sup>	Inhalable Fraction
Zinc Chloride (CAS 7646-85-7)	STEL	2 mg/m <sup>3</sup>	Fume
	TWA	1 mg/m <sup>3</sup>	Fume

##### US. NIOSH: Pocket Guide to Chemical Hazards

White Mineral Oil (CAS 8042-47-5)	STEL	10 mg/m <sup>3</sup>	Mist
	TWA	5 mg/m <sup>3</sup>	Mist
Zinc Chloride (CAS 7646-85-7)	STEL	2 mg/m <sup>3</sup>	Fume
	TWA	1 mg/m <sup>3</sup>	Fume

#### Clothing:

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear suitable protective clothing. Use of an impervious apron is recommended.

#### Eyes:

Chemical respirator with organic vapor cartridge and full face piece.

#### Respiration:

Chemical respirator with organic vapor cartridge and full face piece.

#### 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. Eye wash facilities and emergency shower must be available when handling this product

### Section 9 – Physical & Chemical Properties

Color:	Colorless to light yellow
Form:	Liquid
Odor:	Slight
Specific Gravity:	1.07
pH:	N/A
Melting Point/freezing Point:	N/A
Boiling Point/boiling Range:	680 °F
Flash Point:	275 °F
Auto-ignition Temperature:	500 °F
Vapor Pressure:	0.00003 hPa
Density:	9.0 lbs/gal
VOC (Weight %):	1.58 %

### 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.

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### Section 11 – Toxicological Information

**Inhalation:** May cause damage to organs through prolonged or repeated exposure by inhalation.  
**Skin Contact:** Causes skin irritation.  
**Eye Contact:** Causes serious eye damage..  
**Ingestion:** Expected to be a low ingestion hazard.  
**Symptoms:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

**Acute toxicity:**

Components	Species	Test Results
Benzoic Acid (CAS 65-85-0)		
<b>Dermal:</b>		
<b>Acute</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 0.026 mg/l, 1 Hours
<b>Oral</b>		
LD50	Cat	2000 mg/kg
	Dog	2000 mg/kg
	Mouse	1940 mg/kg
	Rat	1700 mg/kg
Zinc Chloride (CAS 7646-85-7)		
<b>Inhalation:</b>		
<b>Acute</b>		
LC50	Rat	<= 1.975 mg/l, 10 Minutes
<b>Oral</b>		
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:** Causes skin irritation.  
**Serious Eye Damage/Eye Irritation:** Causes serious eye damage.  
**Specific Target Organ Toxicity - Repeated Exposure:** Causes damage to organs through prolonged or repeated exposure.  
**Chronic Effects:** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

### Section 12 – Ecological Information (Non-Mandatory)

Components	Species	Test Results
Benzoic Acid (CAS 65-85-0)		
<b>Aquatic:</b>		
Fish LC50	Western mosquitofish (Gambusia affinis)	180 mg/l, 96 hours
Zinc Chloride (CAS 7646-85-7)		
<b>Aquatic:</b>		
Crustacea EC50	American or virginia oyster (Crassostrea virginica)	0.1511 - 0.2782 mg/l, 48 hours
Fish LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.101 - 0.197 mg/l, 96 hours

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

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### Bioaccumulative Potential:

Partition coefficient n-octanol / water (log Kow)

Benzoic Acid 1.87

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### Section 13 – Disposal Information (Non-Mandatory)

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**Waste Disposal:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Container Disposal:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### Section 14 – Transportation Information (Non-Mandatory)

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#### DOT

**UN Number:** UN3082

**UN Proper Shipping Name:** Environmentally hazardous substances, liquid, n.o.s. (MARK 9314.)

**Transport Hazard Class(es):**

Class 9

Subsidiary Risk –

Label(s) 9

**Packing Group:** III

**Environmental Hazards:**

Marine Pollutant Yes

**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling.

**Special Provisions:** 8, 146, 335, IB3, T4, TP1, TP29

**Packaging Exceptions:** 155

**Packaging Non Bulk:** 203

**Packaging Bulk:** 241

#### IATA

**UN Number:** UN3082

**UN Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s.

**Transport Hazard Class(es):**

Class 9

Subsidiary Risk –

**Packing Group:** III

**Environmental Hazards:** Yes

**ERG Code** 9L

**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling.

#### Other information

**Passenger and Cargo**

**Aircraft:** Allowed.

**Cargo Aircraft Only:** Allowed.

#### IMDG

**UN Number:** UN3082

**UN Proper Shipping Name:** Environmentally hazardous substances, liquid, n.o.s. (MARK 9314.)

**Transport Hazard Class(es):**

Class 9

Subsidiary Risk –

Label(s) 9

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**Packing Group:** III  
**Environmental Hazards:**  
**Marine Pollutant** Yes  
**EmS:** F-A, S-F  
**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling.  
**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not established.

DOT; IATA; IMDG



Marine pollutant



**General Information:** IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

### Section 15 – Regulatory Information (Non-Mandatory)

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**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Benzoic Acid (CAS 65-85-0) Listed.

Zinc Chloride (CAS 7646-85-7) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard Categories:** Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

**SARA 302 Extremely Hazardous Substance**

Not listed.

**SARA 311/312 Hazardous Chemical:** No

**SARA 313 (TRI reporting)**

Chemical	CAS #	% by wt.
Zinc Chloride	7646-85-7	3 - < 5

### Section 16 – Other Information

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No data available



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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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