

## SAFETY DATA SHEET

### Section 1 - Product and Company Identification

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**Product:** Alumilite Water Clear / Clear "A" Side  
**Version #:** Version #1  
**Date:** June 7, 2015  
**CAS #:** Non-Applicable  
**Product Use:** Mold Making and Casting  
**Manufacturer/Supplier:**  
**Company Name:** Alumilite  
**Company Address:** 315 E. North St.  
Kalamazoo, MI 49007  
**Telephone Number:** 269-488-4000  
**Emergency Telephone:** Chemtrec 1-800-424-9300

### Section 2 - Hazards Identification

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#### 2.1 GHS Classification

*Health*  
Product Not Classified

*Environmental*  
Product Not Classified

*Physical*  
Product Not Classified

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

**Pictograms by CLP/GHS:**



**Signal Word:** **Warning**

*Hazard Statements*  
Causes mild skin irritation and mild eye irritation.

*Precautionary Statements*  
Wear appropriate protective gloves, protective spectacles, and the protection side.  
Wash hands well after handling.  
Avoid discharge into the environment.

### Section 3 - Composition / Information on Ingredients

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List of ingredients was submitted for review and none of the ingredients are hazardous substances.

### Section 4 - First Aid

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**Eye Contact:** Flush with large amounts of clean water for 15 minutes. If irritation persists, get medical attention.  
**Skin Contact:** Wash with soap and water. Wash clothing before reuse.  
**Inhalation:** Remove to fresh air if effects occur consult physician.  
**Ingestion:** Side A: Do not induce vomiting. Give large quantities of water. Consult physician immediately.  
Side B: Do not induce vomiting. Give large quantities of water. Give one ounce vinegar in one ounce water. Consult physician.

### Section 5 - Fire Fighting Measures

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**Extinguishing Media:** Water spray, foam, carbon dioxide, or dry chemical.  
**Fire Fighting Instructions:** Treat as a class B fire  
**Flash Point:** > 300 °F

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### Section 6 - Accidental Release Measures

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**General:** Spills should be absorbed with inert material (sand, vermiculite, etc.), sweep or scoop up and put in disposal container. Flush area immediately with plenty of water; prevent washings from entering waterways.

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### Section 7 - Handling and Storage

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**General:** Avoid breathing mist or vapors and repeated or prolonged exposure with skin. Avoid eye contact. Do not drink.

**Storage:** Store and use in well-ventilated area between 70-80F. Avoid excessive temperatures, low or high. Avoid moisture. Containers should be sealed tightly to prevent contamination from foreign materials.

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### Section 8 - Exposure Controls & Personal Protection

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**Clothing:** Impervious gloves, coveralls, apron, boots as necessary to prevent skin contact.

**Eyes:** Safety glasses with side shields.

**Respiration:** NIOSH approved organic vapor respirators are only required when ventilation is inadequate. NIOSH approved air-line respirators with auxiliary escape air tanks or self-contained breathing apparatus should be used in confined spaces.

**Ventilation:** Use local exhaust to control vapors/mists.

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### Section 9 - Physical & Chemical Properties

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**Color:** Colorless

**Form:** Liquid

**Odor:** Polyol

**Specific Gravity:** 1.01

**Boiling Pt:** Not available

**Freezing Pt:** Not available

**Solubility:** Partial

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### Section 10 - Stability & Reactivity

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**Stability:** Stable

**Incompatibility:** Strong acids, amines, mercaptans, base (in uncontrolled amounts).

**Hazardous Decomposition Products:** Thermal decomposition may produce Carbon Monoxide and/or Carbon Dioxide.

**Hazardous Polymerization:** Will not occur.

**Conditions To Avoid:** Strong acids, amines, mercaptans, base (in uncontrolled amounts).

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### Section 11 - Toxicological Information

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No applicable data for this section

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

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No applicable data for this section



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

**Waste Disposal:** Dispose of in compliance with federal, state, or local environmental control regulations. Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

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

Not regulated by the Department of Transportation

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

**CERCLA:** No  
**SARA Title III, Section 313:** Not Listed  
**Section 311/312:** N/A  
**Section 313:** N/A

**Hazardous Health Rating:** Health: 1 Fire: 1 Reactivity: 1

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### Section 16 – Other Information

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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Date: June, 2015  
Document Number: 67315-05011 (A)

Safety Data Sheet Provided By: Modern Testing Services, LLC  
244 Liberty Street, Unit 1-2, Brockton, MA 02301  
Tel: (508) 638 1793 | Website: [www.mts-global.com](http://www.mts-global.com)

# SAFETY DATA SHEET

## Section 1 - Product and Company Identification

**Product:** Alumilite Water Clear / Clear "B" Side  
**Version #:** Version #1  
**Date:** June 7, 2015  
**CAS #:** Non-Applicable  
**Product Use:** Mold Making and Casting  
**Manufacturer/Supplier:**  
**Company Name:** Alumilite  
**Company Address:** 315 E. North St.  
Kalamazoo, MI 49007  
**Telephone Number:** 269-488-4000  
**Emergency Telephone:** Chemtrec 1-800-424-9300

## Section 2 - Hazards Identification

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 3), H331  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Respiratory sensitization (Category 1), H334  
Skin sensitization (Category 1), H317  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram



**Signal Word:** Danger

#### Hazard Statement(s)

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.

#### Precautionary Statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
P285 In case of inadequate ventilation wear respiratory protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.

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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS Lachrymator.

## Section 3 - Composition / Information on Ingredients

### 3.1 Substances

<b>Synonyms:</b>	4,4'-Methylene-bis(cyclohexyl isocyanate) Bis(4-isocyanatocyclohexyl)methane 4,4'-Diisocyanato-methylenedicyclohexane 4,4'-HMDI
<b>Formula:</b>	C <sub>15</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	262.35 g/mol
<b>CAS-No.:</b>	5124-30-1
<b>EC-No.:</b>	225-863-2
<b>Index-No.:</b>	615-009-00-0

### Hazardous components

Component	Classification	Concentration
<b>Dicyclohexylmethane-4,4'-di-isocyanate</b>	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H315, H317, H319, H331, H334, H335	<= 100 %

No components need to be disclosed according to the applicable regulations.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4 - First Aid

<b>Eye Contact:</b>	Flush with large amounts of clean water for 15 minutes. If irritation persists, get medical attention.
<b>Skin Contact:</b>	Wash with soap and water. Wash clothing before reuse.
<b>Inhalation:</b>	Remove to fresh air if effects occur consult physician.
<b>Ingestion:</b>	Side A: Do not induce vomiting. Give large quantities of water. Consult physician immediately. Side B: Do not induce vomiting. Give large quantities of water. Give one ounce vinegar in one ounce water. Consult physician.

## Section 5 - Fire Fighting Measures

<b>Extinguishing Media:</b>	Water spray, foam, carbon dioxide, or dry chemical
<b>Fire Fighting Instructions:</b>	Treat as a class B fire
<b>Flash Point:</b>	369°F

## SAFETY DATA SHEET

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### Section 6 - Accidental Release Measures

**General:** Spills should be absorbed with inert material (sand, vermiculite, etc.), sweep or scoop up and put in disposal container. Flush area immediately with plenty of water; prevent washings from entering waterways.

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### Section 7 - Handling and Storage

**General:** Avoid breathing mist or vapors and repeated or prolonged exposure with skin. Avoid eye contact. Do not drink.  
**Storage:** Store and use in well-ventilated area between 70-80F. Avoid excessive temperatures, low or high. Avoid moisture. Containers should be sealed tightly to prevent contamination from foreign materials.

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### Section 8 - Exposure Controls & Personal Protection

**Clothing:** Impervious gloves, coveralls, apron, boots as necessary to prevent skin contact.  
**Eyes:** Safety glasses with side shields.  
**Respiration:** NIOSH approved organic vapor respirators are only required when ventilation is inadequate. NIOSH approved air-line respirators with auxiliary escape air tanks or self-contained breathing apparatus should be used in confined spaces.  
**Ventilation:** Use local exhaust to control vapors/mists.

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### Section 9 - Physical & Chemical Properties

**Color:** Clear  
**Form:** Liquid  
**Odor:** No Odor  
**Specific Gravity:** 1.08  
**Boiling Pt:** Not available  
**Freezing Pt:** Not available

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### Section 10 - Stability & Reactivity

**Stability:** Stable  
**Incompatibility:** Strong acids, amines, mercaptans, base (in uncontrolled amounts).  
**Hazardous Decomposition Products:** Thermal decomposition may produce Carbon Monoxide and/or Carbon Dioxide.  
**Hazardous Polymerization:** Will not occur.  
**Conditions To Avoid:** Strong acids, amines, mercaptans, base (in uncontrolled amounts).

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### Section 11 - Toxicological Information

#### Toxicity Data for Dicyclohexylmethane-4,4' -Diisocyanate

##### Acute Oral Toxicity

> 11,000 mg/kg (rat)

##### Acute Inhalation Toxicity

LC50: 434 mg/m<sup>3</sup>, aerosol, 4 hrs (rat)

LC50: 510 mg/m<sup>3</sup>, 1 hrs (guinea pig)

##### Acute Dermal Toxicity

LD50: >10,000 mg/kg (rabbit)

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### Skin Irritation

Rabbit, Draize Test, Exposure Time: 24 hrs, moderately irritating

### Eye Irritation

Rabbit, Draize Test, Slightly irritating

### Sensitization

Inhalation: sensitizer (guinea pig)

Dermal: sensitizer (mouse, mouse ear swelling)

### Repeated Dose Toxicity

2 weeks, inhalation: NOAEL: <0.04 mg/l, (rat)

4 weeks, inhalation: NOAEL: 1.06 mg/m<sup>3</sup> (rat, male/female, 6 hrs/day 5 days/week)

### Mutagenicity

Genetic Toxicity in Vitro

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

### Toxicity to Reproduction/Fertility

Inhalation, 6 hrs/day 7 days/week, (rat, Male/Female) NOAEL (parental): 1.0 mg/m<sup>3</sup>, NOAEL (F2): 6.00 mg/m<sup>3</sup>

### Developmental Toxicity/Teratogenicity

Rat, Female, inhalation, 6 hrs/day 7 days/week, NOAEL (teratogenicity): 6 mg/cbm, NOAEL (maternal): 1 mg/cbm

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

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No applicable data for this section

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

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#### Waste Disposal:

Dispose of in compliance with federal, state, or local environmental control regulations. Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

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

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Not regulated by the Department of Transportation

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

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This product is hazardous under the criteria of the Federal OSHA Hazardous Communication Standard 29 CFR 1910.1200

#### CERCLA:

#### SARA Title III, Section 302:

#### Section 311/312:

#### Section 313:

Reportable Quantity: Over 5,000 lbs.

Not Listed

Acute Health Hazard, Chronic Health Hazard

Dicyclohexylmethane 4,4' Diisocyanate < 85%

#### Hazardous Health Rating:

Health: 3      Fire: 1      Reactivity: 1



## SAFETY DATA SHEET

### 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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