

SAFETY DATA SHEET

Section 1 - Product and Company Identification

Product: Alumilite Clear / Clear Slow A Side
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 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

	CAS No.	Percentage
Blend of Polyols	N/A	40-60%
Plasticizer	6846-50-0	40-60%
Curative	68928-76-7	<1%

Section 4 - First Aid

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: Do not induce vomiting. Give large quantities of water. Consult physician immediately.

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Section 5 - Fire Fighting Measures

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

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.

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.

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.

Section 9 - Physical & Chemical Properties

Color: Colorless
Form: Liquid
Odor: Polyol
Specific Gravity: 1.01
Boiling Pt: Not available
Freezing Pt: Not available
Solubility: Partial

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).

Section 11 - Toxicological Information

No applicable data for this section



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Section 12 - Ecological Information (Non Mandatory)

No applicable data for this section

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.

Section 14 - Transportation Information (Non Mandatory)

Not regulated by the Department of Transportation

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

Section 16 – Other Information

No data available

The information contained in this Safety Data Sheet is to the best of Alumilite's knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED OR ANY RELATED PRODUCT.** User is responsible for determining whether the Alumilite product is fit for user's particular purpose and suitable for user's use or application. Given the variety of factors that can affect the use and application of an Alumilite product, it is the user's obligation to determine the suitability of the product for its intended application, and user assumes all risk and liability for safe use of the product. Alumilite's liability is limited to product replacement only after review/testing of product alleged to be defective that is returned to Alumilite in accordance with Alumilite's Shipping and Returns Policy. In no event shall Alumilite be liable for punitive, consequential or indirect damages or damages in excess of the purchase price of the product.

May 14, 2018

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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.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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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

3.1.1

Substances

Synonyms:

4,4'-Methylene-bis(cyclohexyl isocyanate)
Bis(4-isocyanatocyclohexyl)methane
4,4'-Diisocyanato-methylenedicyclohexane
4,4'-HMDI

Formula:

C₁₅H₂₂N₂O₂

Molecular Weight:

262.35 g/mol

CAS-No.:

5124-30-1

EC-No.:

225-863-2

Index-No.:

615-009-00-0

Hazardous components

Component	Classification	Concentration
Dicyclohexylmethane-4,4'-di-isocyanate		
	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.

3.1.2

Aliphatic Isocyanate	CAS No. 28182-81-2	Percentage 10-20%
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Section 4 - First Aid

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:	Do not induce vomiting. Give large quantities of water. Give one ounce vinegar in one ounce water. Consult physician.

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Section 5 - Fire Fighting Measures

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

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.

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.

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.

Section 9 - Physical & Chemical Properties

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

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).

Section 11 - Toxicological Information

Toxicity Data for Dicyclohexylmethane-4,4' -Diisocyanate

Acute Oral Toxicity
> 11,000 mg/kg (rat)

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Acute Inhalation Toxicity

LC50: 434 mg/m³, aerosol, 4 hrs (rat)

LC50: 510 mg/m³, 1 hrs (guinea pig)

Acute Dermal Toxicity

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

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/m³ (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/m³, NOAEL (F2): 6.00 mg/m³

Developmental Toxicity/Teratogenicity

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

Section 12 - Ecological Information (Non Mandatory)

No applicable data for this section

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.

Section 14 - Transportation Information (Non Mandatory)

Not regulated by the Department of Transportation

Section 15 - Regulatory Information (Non Mandatory)

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:

Reportable Quantity: Over 5,000 lbs.

Not Listed

Acute Health Hazard, Chronic Health Hazard



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Section 313: Dicyclohexylmethane 4,4' Diisocyanate < 85%

Hazardous Health Rating: Health: 3 Fire: 1 Reactivity: 1

Section 16 – Other Information

No data available

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May 14, 2018