



SAFETY DATA SHEET

Section 1 - Product and Company Identification

Product: Performance 65D & 80D Side A
Version #: Version #1
Date: June 6, 2017
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: Chemtrec 1-800-424-9300

Section 2 - Hazards Identification

2.1 GHS Classification

Health Not Classified	Environmental Not Classified	Physical Not Classified
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2.2 GHS Signal Word, Hazard Statement, Symbol

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

Hazard Statements

Precautionary Statements

Section 3 - Composition / Information on Ingredients

Chemical	CAS #	%
Poly(oxypropylene) triol	25791-96-2	70-80
Dipropylene glycol	25265-71-8	10-20

Section 4 - First Aid

Eye Contact: Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing.
Skin Contact: Clean affected area with soap and plenty of water.
Inhalation: Move to fresh air. If breathing is difficult, give oxygen.
Ingestion: Consult physician.

Section 5 - Fire Fighting Measures

Extinguishing Media: Water spray, foam, carbon dioxide, or dry chemical.
Fire Fighting Instructions: Closed containers may rupture when exposed to extreme heat. Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.
Flash Point: 248°F
Dangerous Products of Decomposition: Oxides of carbon.

Section 6 - Accidental Release Measures



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General: Avoid contact with skin and eyes.
Waste Disposal: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

Section 7 - Handling and Storage

General: Avoid contact with skin or inhalation.
Storage: Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F. Material may settle.

Section 8 - Exposure Controls & Personal Protection

Chemical Name/CAS No.	OSHA Exp. Limits	ACGIH Exp. Limits	Other Exp. Limits
Poly(oxypropylene) triol 25791-96-2	Not Established	Not Established	Not Established
Dipropylene glycol 25265-71-8	Not Established	Not Established	Not Established

Clothing: Protective chemical resistant gloves. Protective work clothing. Launder separately.
Eyes: Chemical Safety glasses with side shields.
Respiration: None required if work area is properly ventilated.
Ventilation: No specific measures required.

Section 9 - Physical & Chemical Properties

Color: Clear
Form: Liquid
Odor: Mild
Specific Gravity: 1.031884878
Boiling Pt: N/A
Freezing Pt: N/A
Solubility: N/A
Autoignition Temperature: 350°C
Flash Point: 248°F (120°C)

Section 10 - Stability & Reactivity

Stability: Expected to be stable under normal storage conditions.
Incompatibility: Avoid contact with isocyanates and strong oxidizing agents.
Hazardous Decomposition Products: Oxides of carbon
Hazardous Polymerization: Not expected to occur.

Section 11 - Toxicological Information

Toxicity Values Listed if Known

Acute Health Effects:
Eyes: Liquid may cause irritation.
Skin: Minor potential for irritation.
Inhalation: Liquid may cause irritation.
Ingestion: Consult physician.



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Chronic Health Effects: Not expected to cause any adverse chronic health effects..

Routes of Entry: Skin contact, eye contact.
Target Organs: Minor potential for irritation

Section 12 - Ecological Information (Non Mandatory)

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

Component Ecotoxicity

Section 13 - Disposal Information (Non Mandatory)

Waste Disposal: Observe local requirements. Dispose of in accordance with all applicable local/state/federal regulations.

Section 14 - Transportation Information (Non Mandatory)

Not regulated by the Department of Transportation.

Section 15 - Regulatory Information (Non Mandatory)

OSHA HAZARD COMMUNICATION STANDARD: This material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: None

All Substances Listed on TSCA Inventory Unless Noted: None

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.

Date: June, 2017
Document Number:

Safety Data Sheet Provided By: Alumilite Corp.
315 E. North St., Kalamazoo, MI 49007
Tel: (269) 488-4000 Website: www.alumilite.com

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Section 1 - Product and Company Identification

Product: Performance 65D & 80D Side B
Version #: Version #1
Date: June 6, 2017
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: Chemtrec 1-800-424-9300

Section 2 - Hazards Identification

2.1 GHS Classification

Inhalation Toxicity:	Acute Tox. 4
Skin corrosive	2
Eye corrosive	2A
Respiratory sensitizer	1
Skin sensitizer	1
Carcinogen	2
Organ toxin single exposure	3
Organ toxin repeated exposure	1

2.2 GHS Signal Word, Hazard Statement, Symbol

Pictograms by CLP/GHS:
Signal Word:



Danger

Hazard Statements

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment is urgent. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. IF exposed or concerned: Get medical



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advice/attention. If skin irritation occurs: Get medical advice/attention. Store in a well ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with Section 13.

Section 3 - Composition / Information on Ingredients

Chemical	CAS #	%
4,4'-Methylenediphenyl diisocyanate	101-68-8	50-60
Benzene, 1,1'-methylenebis[4-isocyanato-, homopolymer Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxy-, polymer with 1,1'-methylenebis[4-isocyanatobenzene]	25686-28-6	20-30
Methylenediphenyl Diisocyanate, mixed isomers	52409-10-6	10-20
	26447-40-5	1-5

Section 4 - First Aid

Eye Contact:	Flush with large amounts of clean water for 15 minutes. If irritation persists, get medical attention.
Skin Contact:	Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation or rash develops.
Inhalation:	May cause severe irritation to upper respiratory tract and lungs, respiratory sensitization, decreased lung capacity. Remove from exposure area to fresh air. Administer oxygen or artificial respiration as needed. Obtain medical attention.
Ingestion:	Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.

Section 5 - Fire Fighting Measures

Extinguishing Media:	Water spray, foam, carbon dioxide, or dry chemical
Fire Fighting Instructions:	Closed containers may rupture when exposed to extreme heat. Full emergency equipment with self contained breathing apparatus and full protective clothing should be worn by firefighters.
Flash Point:	406°F
Dangerous Products of Decomposition:	Oxides of carbon, oxides of nitrogen, and traces of HCN.

Section 6 - Accidental Release Measures

General:	Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.
Waste Disposal:	Cover and contain spill with absorbent material. Place waste in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). Collect for proper disposal according to local, state, and federal regulations.

Section 7 - Handling and Storage

General:	Do not breath fumes, vapors or mists. Use only with adequate ventilation. Avoid contact with skin or eyes. Immediately report spills or leaks.
Storage:	Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F.

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Section 8 - Exposure Controls & Personal Protection

Chemical Name/CAS No.	OSHA Exp. Limits	ACGIH Exp. Limits	Other Exp. Limits
4,4'-Methylenediphenyl diisocyanate 101-68-8	0.005 ppm TWA 0.02 ppm STEL	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	NIOSH: 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m ³ TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m ³ Ceiling (10 min)
Benzene, 1,1'-methylenebis[4-isocyanat o-, homopolymer 25686-28-6	Not Established	Not Established	Not Established
Poly[oxy(methyl-1,2-ethanedi yl)], .alpha.,.alpha.',.alpha."-1,2,3- propanetriyltris[.omega.-hydr oxy-, polymer with 1,1'-methylenebis[4-isocyanat obenzene] 52409-10-6	Not Established	Not Established	Not Established
Methylenediphenyl Diisocyanate, mixed isomers 26447-40-5	0.02 ppm Ceiling; 0.2 mg/m ³ Ceiling	Not Established	Not Established

Clothing: Impervious gloves, coveralls, apron, boots as necessary to prevent skin contact.
Eyes: Chemical Safety glasses with side shields
Respiration: Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is exceeded. Do not enter storage area unless adequately ventilated.
Ventilation: Use local exhaust ventilation to maintain airborne concentrations below the TLV, especially if heating or spraying. Use only in a well ventilated area to keep vapors below exposure limits. Use local exhaust ventilation if necessary.

Section 9 - Physical & Chemical Properties

Color: Amber.
Form: Liquid
Odor: Musty
Specific Gravity: 1.201059772
Boiling Pt: 300°C
Freezing Pt: Not available
Solubility: N/A
Autoignition Temperature: 240°C
Flash Point: 406°F (208°C)

Section 10 - Stability & Reactivity

Stability: Expected to be stable under normal storage conditions.
Incompatibility: Avoid contact with water, amines, strong bases, and alcohol.
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, hydrocarbons, isocyanates, and traces of HCN.
Hazardous Polymerization: Not expected to occur.



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Section 11 - Toxicological Information

Mixture Toxicity

Inhalation Toxicity LC50: 32mg/L

Component Toxicity

26447-40-5 Methylene diphenyl Diisocyanate, mixed isomers
Dermal LD50: 0 mg/L (Rat) Inhalation LC50: 0 mg/L (Rat)

Toxicity Values Listed if Known

Acute Health Effects:

Eyes: Severe irritation, tearing, swelling, and possible damage to cornea.
Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.
Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.
Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

Chronic Health Effects: Isocyanates may cause skin and respiratory sensitivity in some individuals. Sensitized individuals may react to very low levels diisocyanates below the PEL. Sensitized people who continue to work with diisocyanates may develop symptoms sooner after each exposure. Limited evidence of possible carcinogenic effects.

Conditions Aggravated by Exposure: Asthma, respiratory disorders, skin allergies, eczema

Routes of Entry: Inhalation, ingestion, skin contact, eye contact

Target Organs: Respiratory track, eyes, skin

Section 12 - Ecological Information (Non Mandatory)

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

Component Ecotoxicity

4,4'-Methylene diphenyl diisocyanate 24 Hr LC50 Brachydanio rerio: >500 mg/L
24 Hr EC50 Daphnia magna: >500 mg/L

Section 13 - Disposal Information (Non Mandatory)

Waste Disposal: Observe local requirements. Dispose of in accordance with all applicable local/state/federal regulations.

Section 14 - Transportation Information (Non Mandatory)

DOT Regulated Components:

4,4' Methylene Diphenyl Diisocyanate
Reportable Quantity: 5000 lbs

When in individual containers of less than the substance RQ, this material ships as non-regulated. Containers above RQ ship as:

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Environmentally Hazardous Substance, N.O.S. (Contains Diphenylmethane Diisocyanate)	3082	III	9



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Section 15 - Regulatory Information (Non Mandatory)

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard, chronic health hazard.

**All Substances Listed on TSCA
Inventory Unless Noted:** None

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.

Date: June, 2017

Document Number:

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