



# Safety Data Sheet (SDS)

Material Name: NuAlum

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Manufacturer Information

Nudo  
1500 Taylor Avenue  
Springfield, IL 62703

Phone: 217-528-5636  
Fax: 217-528-8722

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

No specific hazards anticipated from normal product handling. Dust and other particulates generated during cutting, shaping, or forming may cause eye, skin, and respiratory tract irritation.

### Potential Health Effects: Eyes

Dusts and particulates may cause eye irritation.

### Potential Health Effects: Skin

Dusts and particulates may cause skin irritation.

### Potential Health Effects: Ingestion

Not a likely route of exposure under normal product use conditions.

### Potential Health Effects: Inhalation

Dusts and particulates may cause respiratory tract irritation.

### HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component
RR-00514-1	Wood Dust, all soft and hard woods
9003-35-4	Phenol-formaldehyde polymer
Not Available	Coated Aluminum Sheet from Coated Coil
9016-87-9	Polymethylene polyphenylene isocyanate
101-68-8	Methylene bis(phenylisocyanate)
26447-40-5	Methylene diphenylisocyanate

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Eye injuries from glass particles should be treated by a physician immediately.

### First Aid: Skin

For skin contact flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

### First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.  
None anticipated.

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## Hazardous Combustion Products

Not Determined

## Extinguishing Media

Use appropriate extinguishing media suitable for surrounding fire.

## Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \* \* \* Section 6 - Accidental Release Measures \* \* \*

### Containment Procedures

None necessary.

### Clean-Up Procedures

No special cleanup procedures needed.

### Evacuation Procedures

None

### Special Procedures

None

## \* \* \* Section 7 - Handling and Storage \* \* \*

### Handling Procedures

Avoid dust generation.

### Storage Procedures

No special storage procedures needed.

## \* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \*

### A: Component Exposure Limits

#### Wood Dust, all soft and hard woods (RR-00514-1)

NIOSH: 1 mg/m<sup>3</sup> TWA

#### Methylene bis(phenylisocyanate) (101-68-8)

ACGIH: 0.005 ppm TWA

OSHA: 0.02 ppm Ceiling; 0.2 mg/m<sup>3</sup> Ceiling

NIOSH: 0.005 ppm TWA; 0.05 mg/m<sup>3</sup> TWA

0.020 ppm Ceiling (10 min); 0.2 mg/m<sup>3</sup> Ceiling (10 min)

### Engineering Controls

Ventilation is not normally required.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear dust goggles.

#### Personal Protective Equipment: Skin

Nonnecessary.

#### Personal Protective Equipment: Respiratory

Not normally needed.

#### Personal Protective Equipment: General

None

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## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Multi-colored	<b>Odor:</b>	None
<b>Physical State:</b>	Solid	<b>pH:</b>	NA
<b>Vapor Pressure:</b>	ND	<b>Vapor Density:</b>	ND
<b>Boiling Point:</b>	ND	<b>Melting Point:</b>	ND
<b>Solubility (H2O):</b>	ND	<b>Specific Gravity:</b>	ND
<b>Evaporation Rate:</b>	NA	<b>VOC:</b>	ND
<b>Octanol/H2O Coeff.:</b>	ND	<b>Flash Point:</b>	ND
<b>Flash Point Method:</b>	ND	<b>Upper Flammability Limit (UFL):</b>	ND
<b>Lower Flammability Limit (LFL):</b>	ND	<b>Burning Rate:</b>	ND
<b>Auto Ignition:</b>	ND		

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

Avoid dust generation.

### Incompatibility

Not Determined

### Hazardous Decomposition

Not Determined

### Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

##### Polymethylene polyphenylene isocyanate (9016-87-9)

Inhalation LC50 Rat 490 mg/m<sup>3</sup> 4 h; Oral LD50 Rat 49 g/kg; Dermal LD50 Rabbit >9400 mg/kg

##### Methylene bis(phenylisocyanate) (101-68-8)

Oral LD50 Rat 9200 mg/kg

##### Methylene diphenylisocyanate (26447-40-5)

Inhalation LC50 Rat 0.369 mg/L 4 h; Oral LD50 Rat >7400 mg/kg; Dermal LD50 Rabbit >6200 mg/kg

##### Pheno-Formaldehyde polymet (9003.35-4)

Oral LD50 Rat >5f/kg; Dermal LD50 Rabbit >2 g/kg

### Carcinogenicity

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

##### Wood dust, all soft and hard woods (RR-00514-1)

IARC: Group 1; known as a human carcinogen.; (In OSHA Hazard Communication Carcinogen list)

##### Polymethylene polyphenylene isocyanate (9016-87-9)

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

##### Methylene bis(phenylisocyanate) (101-68-8)

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IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

**1,1'-Methylenebis (isocyanato-) benzene (26447-40-5)**

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

## \*\*\* Section 12 - Ecological Information \*\*\*

**Ecotoxicity****A: General Product Information**

No information available for the product.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity****1,1'-Methylenebis (isocyanato-) benzene (26447-40-5)****Test & Species**

96 Hr EC50 Skeletonema costatum	3230 mg/L
24 Hr EC50 Daphnia magna	>1000 mg/L

**Conditions**

## \*\*\* Section 13 - Disposal Considerations \*\*\*

**US EPA Waste Number & Descriptions****Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

**US DOT Information**

**Shipping Name:** Not Regulated

**TDG Information**

**Shipping Name:** Not Regulated

## \*\*\* Section 15 - Regulatory Information \*\*\*

**US Federal Regulations****Component Analysis**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

**Polymethylene polyphenylene isocyanate (9016-87-9)**

SARA 313: 1.0 % de minimis concentration

**Methylene bis(phenylisocyanate) (101-68-8)**

SARA 313: 1.0 % de minimis concentration  
CERCLA: 5000 lb final RQ; 2270 kg final RQ

**Plywood**

SARA 311/312: Delayed (CHR) Health Hazard

**Phenol-Formaldehyde polymer (9003-35-4)**

Listed on the United States TSCA Inventory

**State Regulations**

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## Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Wood dust, all soft and hard woods	RR-00514-1	Yes	No	No	Yes	Yes	No
Polymethylene polyphenylene isocyanate	9016-87-9	No	No	No	Yes	No	No
Methylene bis(phenylisocyanate)	101-68-8	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

## Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Methylene bis(phenylisocyanate)	101-68-8	0.1 %

## Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Polymethylene polyphenylene isocyanate	9016-87-9	Yes	DSL	No
Methylene bis(phenylisocyanate)	101-68-8	Yes	DSL	EINECS
1,1'-Methylenebis (isocyanato-) benzene	26447-40-5	Yes	DSL	EINECS

## US. California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Styrene	Cancer	100-42-5
Benzene	Cancer	71-43-2
Benzene	Developmental – Male	71-43-2
Wood Dust	Cancer	---
Formaldehyde (gas)	Cancer	50-00-0

## \*\*\* Section 16 - Other Information \*\*\*

### Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration, NJTSR = New Jersey Trade Secret Registry.

End of Sheet