



# Safety Data Sheet (SDS)

Material Name: Polymetal

## \*\*\* 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
7429-90-5	Aluminum
9002-88-4	Polyethylene
7439-95-4	Magnesium
Not Available	Coatings
7439-96-5	Manganese
7440-21-3	Silicon
7439-89-6	Iron
7440-47-3	Chromium

## \*\*\* 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.

### Hazardous Combustion Products

Not Determined

### Extinguishing Media

Use appropriate extinguishing media suitable for surrounding fire.

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## 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

#### Aluminum (7429-90-5)

ACGIH: 1 mg/m<sup>3</sup> TWA (respirable fraction)

OSHA: 15 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

NIOSH: 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

#### Manganese (7439-96-5)

ACGIH: 0.2 mg/m<sup>3</sup> TWA

OSHA: 1 mg/m<sup>3</sup> TWA (fume)

3 mg/m<sup>3</sup> STEL (fume)

5 mg/m<sup>3</sup> Ceiling

NIOSH: 1 mg/m<sup>3</sup> TWA (fume)

3 mg/m<sup>3</sup> STEL

#### Silicon (7440-21-3)

OSHA: 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable fraction)

NIOSH: 10 mg/m<sup>3</sup> TWA (total dust); 5 mg/m<sup>3</sup> TWA (respirable dust)

#### Chromium (7440-47-3)

ACGIH: 0.5 mg/m<sup>3</sup> TWA

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

NIOSH: 0.5 mg/m<sup>3</sup> TWA

### Engineering Controls

Ventilation is not normally required.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear dust goggles.

#### Personal Protective Equipment: Skin

None necessary.

#### 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

##### Polyethylene (9002-88-4)

Inhalation LC50 Mouse 12 g/m3 30 min

##### Magnesium (7439-95-4)

Oral LD50 Rat 230 mg/kg

##### Manganese (7439-96-5)

Oral LD50 Rat 9 g/kg

##### Iron (7439-89-6)

Oral LD50 Rat 984 mg/kg

##### Silicon (7440-21-3)

Oral LD50 Rat 3160 mg/kg

### Carcinogenicity

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

##### Aluminum (7429-90-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

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**Polyethylene (9002-88-4)**

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

**Chromium (7440-47-3)**

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 49 [1990] (listed under Chromium and Chromium compounds); Supplement 7 [1987] (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**

**Iron (7439-89-6)**

**Test & Species**

96 Hr LC50 Morone saxatilis

13.6 mg/L [static]

**Conditions**

96 Hr LC50 Cyprinus carpio

0.56 mg/L [semi-static]

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

**US EPA Waste Number & Descriptions**

**Component Waste Numbers**

**Chromium (7440-47-3)**

RCRA: 5.0 mg/L regulatory level

**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).

**Aluminum (7429-90-5)**

SARA 313: 1.0 % de minimis concentration (dust or fume only)

**Manganese (7439-96-5)**

SARA 313: 1.0 % de minimis concentration

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**Chromium (7440-47-3)**

CERCLA: 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)

**State Regulations**

**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
Aluminum	7429-90-5	Yes	Yes	Yes	Yes	Yes	Yes
Magnesium	7439-95-4	Yes	Yes	No	Yes	Yes	Yes
Manganese	7439-96-5	Yes	Yes	Yes	Yes	Yes	Yes
Iron	7439-89-6	Yes	No	No	No	No	No
Silicon	7440-21-3	No	Yes	Yes	Yes	Yes	Yes
Chromium	7440-47-3	Yes	Yes	Yes	Yes	Yes	Yes

**Component Analysis - WHMIS IDL**

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

Component	CAS #	Minimum Concentration
Aluminum	7429-90-5	1 %
Manganese	7439-96-5	1 %
Chromium	7440-47-3	0.1 %

**Additional Regulatory Information**

**Component Analysis - Inventory**

Component	CAS #	TSCA	CAN	EEC
Aluminum	7429-90-5	Yes	DSL	EINECS
Polyethylene	9002-88-4	Yes	DSL	No
Magnesium	7439-95-4	Yes	DSL	EINECS
Manganese	7439-96-5	Yes	DSL	EINECS
Iron	7439-89-6	Yes	DSL	EINECS
Silicon	7440-21-3	Yes	DSL	EINECS
Chromium	7440-47-3	Yes	DSL	EINECS

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**

Lead	Cancer	207.2
Lead	Developmental - All Genders	207.2
Benzene	Cancer	71-43-2
Benzene	Developmental - Male	71-43-2
Carbon black (airborne, unbound particles of respirable size)	Cancer	1333-86-4
Naphthalene	Cancer	91-20-3
Titanium dioxide (airborne, unbound particles of respirable size)	Cancer	---

**\*\*\* 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.

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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