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| **SECTION 1: IDENTIFICATION** |

## Product Identifier

## Product Form:

## Article

## Product Name:

## Exterior Aluminum Products

## Synonyms:

## Aluminum siding, soffit, trim sheet and other accessories with various coatings, Coated sheet (3xxx alloys).

## Intended Use of the Product

## Use of the substance/mixture:

## Building Product

## Name, Address, and Telephone of the Responsible Party

## Company

## Ply Gem Industries

## 2600 Grand Blvd, Suite 900

## 64108 Kansas City, MO 64108

## T 816-426-8200

## [www.plygem.com](http://www.plygem.com/)

## Emergency Telephone Number

## Emergency Number:

## 1-880 424-9300 CHEMTREC

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| **SECTION 2: HAZARDS IDENTIFICATION** |

* 1. **Classification of the Substance or Mixture**
* Classification (GHS-US)
	+ Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this product is considered a manufactured article and is not considered a hazard when used in a manner which is consistent with the labeled directions.
	1. **Label Elements**
* GHS-US Labeling
	+ No labeling applicable
	1. **Other Hazards**
* The health effects listed below are not likely to occur unless processing of this product generates dust. Dust from processing can cause irritation of eyes, skin and upper respiratory tract.
	1. **Unknown Acute Toxicity**
* (GHS-US)
	+ No data available

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| **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS** |

## Substance

## Not applicable

## Mixture

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| --- | --- | --- | --- |
| **Name** | **Product Identifier** | **%** | **Classification (GHS-US)** |
| Aluminum | (CAS No) 7429-90-5 | > 90 | Comb. DustFlam. Sol. 1, H228 Water-react. 2, H261 |
| Magnesium | (CAS No) 7439-95-4 | < 1.9 | Flam. Sol. 1, H228 Self-heat. 2, H252Water-react. 2, H261 |
| Manganese | (CAS No) 7439-96-5 | < 1.6 | Comb. Dust |
| Chromium | (CAS No) 7440-47-3 | <= 0.2 | Comb. Dust |
| Coatings | N/A (Article)\* | < 10 | Not classified |

* The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].
* Full text of H-phrases: see section 16

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| **SECTION 4: FIRST AID MEASURES** |

## Description of First Aid Measures

* First-aid Measures General
	+ Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
* First-aid Measures After Inhalation
	+ When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
* First-aid Measures After Skin Contact
	+ Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.
* First-aid Measures After Eye Contact:
	+ Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists
* First-aid Measures After Ingestion:
	+ Rinse mouth. Do NOT induce vomiting. Seek medical attention
* First-aid Measures After Ingestion
	+ Rinse mouth. Do NOT induce vomiting. Seek medical attention

**4.2 Most important symptoms and effects, both acute and delayed**

* Symptoms/Injuries
	+ None expected under normal conditions of use. The health effects listed below are not likely to occur unless dust is generated by processing.
* Symptoms/Injuries After Inhalation
	+ Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
* Symptoms/Injuries After Skin Contact
	+ Dust may cause irritation in skin folds or by contact in combination with tight clothing
* Symptoms and Injuries After Eye Contact
	+ Dust from this product may cause minor eye irritation.
* Symptoms/Injuries After Ingestion
	+ Gastrointestinal irritation
* Chronic Symptoms
	+ None expected under normal conditions of use
	1. **Indication of Any Immediate Medical Attention and Special Treatment Needed**
* If medical advice is needed, have product container or label at hand.

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| **SECTION 5: FIRE-FIGHTING MEASURES** |

**5.1. Extinguishing Media**

* Suitable Extinguishing Media:
	+ Dry chemical, water spray, regular foam.
* Unsuitable Extinguishing Media:
	+ Do not use a heavy water stream. Use of heavy stream of water may spread fire.

**5.2. Special Hazards Arising from the Substance or Mixture**

* Fire Hazard:
	+ Non-combustible.
* Explosion Hazard:
	+ Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.
* Reactivity:
	+ Hazardous reactions will not occur under normal conditions.

**5.3. Advice for Firefighters**

* Precautionary Measures Fire:
	+ Exercise caution when fighting any chemical fire.
* Firefighting Instructions:
	+ Avoid inhalation of material or combustion by-products. Do not allow run-off from firefighting to enter drains or water sources. Use water spray or fog for cooling exposed containers.
* Protection During Firefighting:
	+ Do not enter fire area without proper protective equipment, including respiratory protection.
* Other Information:
	+ Refer to Section 9 for flammability properties.

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| **SECTIN 6: ACCIDENTIAL RELEASE MEASURES** |

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

* General Measures: No special measures required.
* For Non-Emergency Personnel
	+ Protective Equipment: Use appropriate personal protection equipment (PPE).
	+ Emergency Procedures: Evacuate unnecessary personnel.
* For Emergency Responders
	+ Protective Equipment: Equip cleanup crew with proper protection.
	+ Emergency Procedures: Ventilate area.

**6.2. Environmental Precautions**

* Prevent entry to sewers and public waters.

**6.3. Methods and Material for Containment and Cleaning Up**

* For Containment:
	+ No specific measures are necessary.
* Methods for Cleaning Up:
	+ Clean up spills immediately and dispose of waste safely. Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Utilize a dust suppressant when removing mechanically.

**6.4. Reference to Other Sections**

* See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

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| **SECTION 7: HANDLING AND STORAGE** |

**7.1. Precautions for Safe Handling**

* Additional Hazards When Processed:
	+ Dust generated from processing may present a dust explosion hazard. Where excessive dust may result, use approved respiratory protection equipment. Do not breathe dust.
* Precautions for Safe Handling:
	+ Avoid creating or spreading dust.
* Hygiene Measures:
	+ Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**7.2. Conditions for Safe Storage, Including Any Incompatibilities**

* Storage Conditions:
	+ Store away from incompatible materials.
* Incompatible Products:
	+ Strong acids. Strong bases. Strong oxidizers.
* Storage Area:
	+ Store in a well-ventilated place. Keep cool.

**7.3. Specific End Use(s)**

* Building Product

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| **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION** |

**8.1. Control Parameters**

* For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

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| **Aluminum (7429-90-5)** |
| **USA ACGIH** | ACGIH TWA (mg/m³) | 1 mg/m³ (respirable fraction) |
| **USA ACGIH** | ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| **USA NIOSH** | NIOSH REL (TWA) (mg/m³) | 10 mg/m³ (total dust)5 mg/m³ (respirable dust) |
| **USA OSHA** | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ (total dust)5 mg/m³ (respirable fraction) |
| **Manganese (7439-96-5)** |
| **USA ACGIH** | ACGIH TWA (mg/m³) | 0.02 mg/m³ (respirable fraction)0.1 mg/m³ (inhalable fraction) |
| **USA ACGIH** | ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| **USA NIOSH** | NIOSH REL (TWA) (mg/m³) | 1 mg/m³ (fume) |
| **USA NIOSH** | NIOSH REL (STEL) (mg/m³) | 3 mg/m³ |
| **USA IDLH** | US IDLH (mg/m³) | 500 mg/m³ |
| **USA OSHA** | OSHA PEL (Ceiling) (mg/m³) | 5 mg/m³ (fume) |
| **Chromium (7440-47-3)** |
| **USA ACGIH** | ACGIH TWA (mg/m³) | 0.5 mg/m³ |
| **USA ACGIH** | ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| **USA NIOSH** | NIOSH REL (TWA) (mg/m³) | 0.5 mg/m³ |
| **USA IDLH** | US IDLH (mg/m³) | 250 mg/m³ |
| **USA OSHA** | OSHA PEL (TWA) (mg/m³) | 1 mg/m³ |

**8.2. Exposure Controls**

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| Appropriate Engineering Controls | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. |
| Personal Protective Equipment | In case of dust production: protective goggles. Dust formation: dust mask. |
|  |
| Materials for Protective Clothing | Not required for normal conditions of use. |
| Hand Protection | Not required for normal conditions of use. |
| Eye Protection | In case of dust production: protective goggles. |
| Skin and Body Protection | Not required for normal conditions of use. |
| Respiratory Protection | Use NIOSH-approved dust mask if dust has the potential to become airborne. |
| Environmental Exposure Controls | Avoid release to the environment. |
| Consumer Exposure Controls | Do not eat, drink or smoke during use. |

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| **SECTION 9: PHYSICIAL AND CHEMICAL PROPERTIES** |

**9.1. Information on Basic Physical and Chemical Properties**

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| Physical State | Solid |
| Appearance | Formed siding, soffit, fascia, and trim sheet items |
| Odor | None |
| Odor Threshold | No data available |
| pH | N/A |
| Evaporation Rate | No data available |
| Melting Point | 482 - 649 °C (899.6 - 1200.2 °F) |
| Freezing Point | No data available |
| Boiling Point | Not applicable |
| Flash Point | N/A |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapor Pressure | No data available |
| Relative Vapor Density at 20 °C | No data available |
| Relative Density | No data available |
| Specific gravity / density | 2.7 - 2.73 g/cm³ |
| Solubility | Water: None |
| Partition Coefficient: N-Octanol/Water | No data available |
| Viscosity | N/A |

**9.2. Other Information**

* No additional information available

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| **SECTION 10: STABILITY AND REACTIVITY** |

**11.1. Information on Toxicological Effects**

* **Acute Toxicity:** Not classified

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| **Manganese (7439-96-5)** |
|  **LD50 Oral Rat** | > 2000 mg/kg |
| **Chromium (7440-47-3)** |
|  **LD50 Oral Rat** | > 5000 mg/kg |

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| **Skin Corrosion/Irritation** | Not classified |
| **pH** | N/A |
| **Serious Eye Damage/Irritation** | Not classified |
| **pH** | N/A **Respiratory or Skin** |
| **Sensitization** | Not classified |
| **Germ Cell Mutagenicity** | Not classified |
| **Carcinogenicity** | Not classified |
| **Reproductive Toxicity** | Not classified |
| **Specific Target Organ Toxicity (Single Exposure):** | Not classified |
| **Specific Target Organ Toxicity (Repeated Exposure):** | Not classified |
| **Aspiration Hazard** | Not classified |
| **Symptoms/Injuries After Inhalation** | Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| **Symptoms/Injuries After Skin Contact** | Dust may cause irritation in skin folds or by contact in combination with tight clothing. |
| **Symptoms/Injuries After Eye Contact** | Dust from this product may cause minor eye irritation |
| **Symptoms/Injuries After Ingestion** | Gastrointestinal irritation |
| **Chronic Symptoms** | None expected under normal conditions of use |

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| **SECTION 12: ECOLOGICAL INFORMATION** |

**12.1. Toxicity**

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| **Manganese (7439-96-5)** |
| **NOEC chronic fish** | * 1. mg/l (Exposure time: 96h; Species: Oncorhynchus mykiss)
 |

**12.2. Persistence and Degradability:** No additional information available

**12.3. Bioaccumulative Potential:** No additional information

**12.4. Mobility in Soil:** No additional information available

**12.5. Other Adverse Effects**: No additional information available

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| **SECTION 13: DISPOSAL CONSIDERATIONS** |

**13.1. Waste treatment methods**

* Waste Disposal Recommendations:
	+ Dispose of waste material in accordance with all local, regional, national, and international regulations.

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| **SECTION 14: TRANSPORTATION INFORMATION** |

**14.1. In Accordance with DOT** Not regulated for transport

**14.2. In Accordance with IMDG** Not regulated for transport

**14.3. In Accordance with IATA** Not regulated for transport

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| **SECTION 15: REGULATORY INFORMATION** |

**15.1 US Federal Regulations**

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| **Aluminum (7429-90-5)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventoryListed on United States SARA Section 313 |
| SARA Section 311/312 Hazard Classes | Fire hazardReactive hazard |
| SARA Section 313 - Emission Reporting | 1.0 % (dust or fume only) |
| **Magnesium (7439-95-4)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| **Manganese (7439-96-5)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventoryListed on United States SARA Section 313 |
| **SARA Section 313 - Emission Reporting** | 1.0 % |
| **Chromium (7440-47-3)** |
| Listed on the United States TSCA (Toxic Substances Control Act) inventoryListed on United States SARA Section 313 |
| SARA Section 313 - Emission Reporting |  |

**15.2 US State Regulations**

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| **Aluminum (7429-90-5)** |
| U.S. - Massachusetts - Right to Know ListU.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard ListU.S. - Pennsylvania - RTK (Right to Know) List |
| **Magnesium (7439-95-4)** |
| U.S. - Massachusetts - Right to Know ListU.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) List |
| **Manganese (7439-96-5)** |
| U.S. - Massachusetts - Right to Know ListU.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard ListU.S. - Pennsylvania - RTK (Right to Know) List |
| **Chromium (7440-47-3)** |
| U.S. - Massachusetts - Right to Know ListU.S. - New Jersey - Right to Know Hazardous Substance ListU.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard ListU.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous SubstancesU.S. - Pennsylvania - RTK (Right to Know) List U.S – California - California Safe Drinking Water and Toxics Enforcement Act (Proposition 65) * The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
	+ **WARNING!** This product can expose you to chemical including Chromium, (hexavalent compounds) that are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)
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| **SECTION 16: OTHER INFORMATION, INCLUDING DATA OF PREPARATION OR LAST REVISION** |

16.1 Revision Date: 08/03/2018

16.2 **Other Information**

* This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

16.3 **GHS Full Text Phrases**

|  |  |
| --- | --- |
| Comb. Dust | May form combustible dust concentrations in air |
| Flam. Sol. 1 | Flammable solids Category 1 |
| Self-heat. 2 | Self-heating substances and mixtures Category 2 |
| Water-react. 2 | Substances and mixtures which in contact with water emit flammablegases Category 2 |
| H228 | Flammable solid |
| H252 | Self-heating in large quantities; may catch fire |
| H261 | In contact with water releases flammable gases |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*