VEDREX

MATERIAL SAFETY DATA SHEET (MSDS)

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Introduction

This Safety Data Sheet (SDS) has been prepared in accordance with the Hazardous Products Regulations (HPR) in Canada and the Hazard Communication Standard (HCS) in the United States.
It provides essential information for the safe handling, use, storage, and disposal of this product in occupational settings. The data provided is applicable to the finished and fully cured aluminum profiles as supplied. It does not address hazards arising from improper use, such as welding, burning, or melting the product.
Ensure this SDS is readily accessible to workers handling or processing the material.

Product and Company Identification

Product Name: VEDREX Powder-Coated or Sublimated Aluminum Extrusions Product Use: Exterior/interior siding, soffits, and architectural cladding
Product Code: Various profiles and finishes
Synonyms: Aluminum Alloy 6063 Series
Restrictions on Use: Not suitable for structural or load-bearing applications
Manufacturer / Supplier: 4EDGE Production Corp.
Unit 5A, 11 Cidermill Avenue, Concord, Ontario, Canada L4K 4B6
Phone: +1-416-400-4166 Email: info@vedrex.ca | info@4edge.ca
Web: www.vedrex.ca | www.4edge.c
24/7 Emergency Contact (Canada):
CANUTEC: 1-888-226-8832 or 613-996-6666 (collect)

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Hazard Identification

Classification (WHMIS/GHS):
Not hazardous under normal conditions of use (finished article)
Classification for Dust Exposure (from mechanical processing):

- STOT-SE Category 3 (Respiratory Irritation)
- Combustible Dust (Physical Hazard)

GHS Label Elements (only if processed):

- Signal Word: Warning
- Hazard Statements:
  - H335: May cause respiratory irritation
  - May form combustible dust concentrations in the air
- Precautionary Statements:
  - P261: Avoid breathing dust or fumes
  - P280: Wear protective gloves, clothing, and eye protection
  - P271: Use only in well-ventilated areas
  - P304 + P340: If inhaled, remove person to fresh air and keep comfortable

Other Hazards:

- Product is inert and non-reactive in solid form
- Mechanical processing may generate airborne dust or fumes

Composition/Information on Ingredients

Component	CAS Number	% by Weight
Aluminum (Aluminum Alloy 6063)	7429-90-5	90–98%
Powder Coating / Sublimation Layer (cured)	Proprietary	<10%

Note: Coating is fully cured and non-hazardous. No hazardous components exceed the reporting thresholds of WHMIS or OSHA.

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First-Aid Measures

Inhalation:
Remove to fresh air if dust is inhaled during cutting or processing. Seek medical attention if symptoms persist.

Skin Contact:
Wash affected skin with soap and water. Seek medical advice if irritation develops.

Eye Contact:
Rinse eyes gently with water for several minutes. Remove contact lenses if present. Get medical attention if irritation persists.

Ingestion:
Not expected during normal use. If large amounts are swallowed, get medical advice.

Most Important Symptoms:
Irritation of the eyes, skin, and respiratory tract due to dust exposure.

Immediate Medical Attention:
Not typically required for solid product.

Fire-Fighting Measures

Suitable Extinguishing Media:
Dry chemical, foam, CO2, or water spray (for packaging or surroundings)

Unsuitable Media:
Avoid direct water stream on molten aluminum

Specific Hazards:
Finely divided aluminum dust is combustible Potential dust explosion in confined conditions

Firefighter Protection:
Use full protective equipment and self-contained breathing apparatus (SCBA)

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Accidental Release Measures

Personal Precautions:
Avoid inhalation of dust. Use PPE.

Protective Equipment:
Gloves, dust mask or respirator, safety goggles

Cleanup Methods:
Collect dust using a HEPA-filtered vacuum or wet methods. Avoid dry sweeping.

Environmental Precautions:
Prevent aluminum particles from entering waterways or storm drains.

Handling and Storage

Safe Handling:

- Use appropriate PPE when cutting or grinding
- Minimize airborne dust with proper ventilation
- Follow good industrial hygiene practices

Storage Conditions:

- Store in a dry, well-ventilated area
- Avoid contact with acids, alkalis, or oxidizing agents

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Exposure Controls and Personal Protection

Occupational Exposure Limits (OELs)

Substance	ACGIH TLV (TWA)
Aluminum (Inhalable dust)	1 mg/m³
Aluminum (Respirable fraction)	1 mg/m³

Note: ACGIH TLV (TWA) is the average concentration of a substance in the air that most workers can be repeatedly exposed to for an 8-hour workday and 40-hour workweek without experiencing adverse health effects.

Engineering Controls:
Use local exhaust ventilation during mechanical processing.

PPE Requirements:

- Eye Protection: Safety goggles
- Skin Protection: Gloves
- Respiratory Protection: NIOSH-approved dust mask if airborne particles are present
- Clothing: Use protective garments in dusty environments

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Physical and Chemical Properties

Property	Value
Appearance	Solid aluminum profile, coated or sublimated
Odor	Odorless
pH	Not applicable
Melting Point	~660°C
Boiling Point	Not applicable
Flash Point	Not applicable
Solubility	Insoluble in water
Vapor Pressure	Not applicable
Flammability	Non-flammable (solid form)
Combustibility	May be combustible if airborne (dust)

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Stability and Reactivity

Reactivity:
Not reactive under normal conditions

Stability:
Stable

Possibility of Hazardous Reactions:
None under recommended use

Incompatible Materials:
Strong acids, alkalis, and oxidizing agents

Decomposition Products:
Aluminum oxide and metal fumes (only at extreme temperatures or fire)

Toxicological Information

Routes of Exposure:
Inhalation (dust), skin and eye contact

Symptoms:
Mechanical irritation to the eyes, skin, and respiratory tract

Acute Toxicity:
Low (finished product)

Chronic Effects:
No known significant effects from the solid form

Carcinogenicity / Mutagenicity / Reproductive Toxicity:
Not classified or expected

Sensitization:
Not known to occur

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Ecological Information

Ecotoxicity:
Not hazardous in solid form

Persistence / Degradability:
Not biodegradable, but inert and stable

Bioaccumulation:
Not expected

Mobility in Soil:
Low

Environmental Precautions:
Avoid dispersing aluminum dust in water bodies.

Disposal Considerations

Product Waste:
Recycle aluminum whenever possible. Dispose of residual material according to local, provincial/state, and federal regulations.

Contaminated Packaging:
Dispose of as non-hazardous construction waste if clean and uncontaminated.

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Transport Information

Transport Regulation	Classification
TDG (Canada)	Not regulated
DOT (U.S.)	Not regulated
IMDG/IATA	Not regulated
UN Number	Not applicable
Marine Pollutant	No
Packing Group	Not applicable
Special Precautions	None

Regulatory Information

Canada (WHMIS 2015):
Not classified as hazardous

U.S. (OSHA HCS 2012):
Not classified as hazardous

DSL/NDSL (Canada):
All components listed

TSCA Inventory (U.S.):
All components listed or exempt

Other Regulations:
Complies with applicable Canadian and U.S. building and environmental safety standards

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Other Information

MSDS Prepared By:
4EDGE Production Corp. on behalf of the VEDREX health & safety compliance team

Preparation Date:
April, 2025

Disclaimer:
This MSDS is based on current knowledge and intended for guidance under normal use. It does not address risks from misuse or nonstandard operations (e.g., welding, smelting). Users must determine suitability for their specific workplace conditions.

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by

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