

### SAFETY DATA SHEET

#### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **Aluminum Railings**

**Product Code(s)** : Not available.

**Recommended use of the chemical and restrictions on use**

: Balcony railings  
Recommended restrictions: None known.

**Chemical family** : Aluminum compounds

**Name, address, and telephone number of the supplier:**

**Peak Products USA Corporation**

c/o #203-11782 Hammersmith Way  
Richmond, BC, Canada  
V7A 5E2

Supplier's Telephone # : 604-448-8000

**24 Hr. Emergency Tel #** : 604-448-8000

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

#### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Powder coated railing, clear or tinted glass. Odorless.

This product is considered to be a 'manufactured article'. This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous as the result of downstream activities (sanding/cutting) which creates small particles resulting in the potential hazards listed below.

Hazard classification:  
Carcinogenicity- Category 2

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

Warning.

*Hazard statement(s)*

Suspected of causing cancer.

*Precautionary statement(s)*

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/clothing and eye/face protection.
- IF exposed or concerned: Get medical attention/advice.
- Store locked up.
- Dispose of contents/container in accordance with local regulation.

**Other hazards**

Other hazards which do not result in classification:

Contact with eyes may cause irritation. Inhalation of high concentrations of metallic fumes or dusts may result in irritation of the respiratory tract Sensitization of the lungs and other mucous membranes may occur Inhalation of fumes may result in metal fume fever, a flu-like illness.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Article: Balcony Railing

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Aluminum	Not available.	7429-90-5	80.0 - 100.0
Glass	Sodium calcium polyphosphate Glassy sodium phosphate	65997-17-3	0.0 - 20.0

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : Wash affected areas with soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops and persists.
- Eye contact* : Flush with large amounts of water for 15 minutes. Remove contact lenses, if present and easy to do. If irritation or symptoms develop, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

- : Exposure to particulate aluminium, filings, shavings etc, may lead to irritation of the skin, or to puncture due to sharp fragments. Exposure to broken glass may lead to severe cuts. Direct eye contact may cause slight or mild, transient irritation. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath. Repeated and prolonged exposure to metallic fume or dust during processing may cause one or more of the following: asthma, bronchitis, chemical pneumonia, sensitization of mucous membranes, nasal perforation, eye inflammation, target organ damage, depressed central nervous system function.

#### Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

##### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Burning produces obnoxious and toxic fumes.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

#### Hazardous combustion products

- : aluminum oxide

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

##### *Special fire-fighting procedures*

- : Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

**Methods and material for containment and cleaning up**

- : Ventilate the area. Prevent further leakage or spillage if safe to do so. Sweep up or vacuum up spillage and collect in suitable container for disposal. Contact the proper local authorities.

**Special spill response procedures**

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): None reportable.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

- : Use only outdoors or in a well-ventilated area. Wear suitable protective equipment. Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Keep away from heat and flame. Wash thoroughly after handling. Avoid dust formation.

- Conditions for safe storage** : Keep away from incompatibles. Store in a cool, dry, well-ventilated area. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

- Incompatible materials** : Acids

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>					
	<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
		<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Aluminum	1 mg/m <sup>3</sup> (respirable)	N/Av	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable)	N/Av	
Glass	N/Av	N/Av	N/Av	N/Av	

**Exposure controls**

**Ventilation and engineering measures**

- : Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value.

- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.

- Skin protection** : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

- Eye / face protection** : Chemical goggles must be worn to prevent dusts from entering the eyes.

- Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

**General hygiene considerations**

- : Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

**SAFETY DATA SHEET****SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	: Powder coated railing, clear or tinted glass.
<b>Odour</b>	: Odorless.
<b>Odour threshold</b>	: No information available.
<b>pH</b>	: No information available.
<b>Melting/Freezing point</b>	: (604.44°C)1220°F
<b>Initial boiling point and boiling range</b>	: (2467.2°C) 4473°F
<b>Flash point</b>	: Not applicable.
<b>Flashpoint (Method)</b>	: Not applicable.
<b>Evaporation rate (BuAe = 1)</b>	: No information available.
<b>Flammability (solid, gas)</b>	: The product is not flammable.
<b>Lower flammable limit (% by vol.)</b>	: N/Ap
<b>Upper flammable limit (% by vol.)</b>	: N/Ap
<b>Oxidizing properties</b>	: None known.
<b>Explosive properties</b>	: Not explosive
<b>Vapour pressure</b>	: No information available.
<b>Vapour density</b>	: No information available.
<b>Relative density / Specific gravity</b>	: 2.8
<b>Solubility in water</b>	: Insoluble.
<b>Other solubility(ies)</b>	: No information available.
<b>Partition coefficient: n-octanol/water or Coefficient of water/oil distribution</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: No information available.
<b>Decomposition temperature</b>	: No information available.
<b>Viscosity</b>	: Not applicable.
<b>Volatiles (% by weight)</b>	: No information available.
<b>Volatile organic Compounds (VOC's)</b>	: No information available.
<b>Absolute pressure of container</b>	: N/Ap
<b>Flame projection length</b>	: N/Ap
<b>Other physical/chemical comments</b>	: None known or reported by the manufacturer.

**SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	: Not normally reactive.
<b>Chemical stability</b>	: Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	: Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	: Avoid contact with incompatible materials. Avoid dust formation.
<b>Incompatible materials</b>	: See Section 7 (Handling and Storage) for further details.
<b>Hazardous decomposition products</b>	: None known, refer to hazardous combustion products in Section 5.

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure:**

<b>Routes of entry inhalation</b>	: YES
<b>Routes of entry skin &amp; eye</b>	: YES

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**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**  
: NO

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation*

- : Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

*Sign and symptoms ingestion*

- : Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system.

*Sign and symptoms skin*

- : Exposure to particulate aluminium, filings, shavings etc, may lead to irritation of the skin, or to puncture due to sharp fragments. Exposure to broken glass may lead to severe cuts. Direct skin contact may cause slight or mild, transient irritation.

*Sign and symptoms eyes*

- : Direct eye contact may cause slight redness.

**Potential Chronic Health Effects**

- : Repeated and prolonged exposure to metallic fume or dust during processing may cause one or more of the following: asthma, bronchitis, chemical pneumonia, sensitization of mucous membranes, nasal perforation, eye inflammation, target organ damage, depressed central nervous system function.

**Mutagenicity**

- : Not expected to be mutagenic in humans.

**Carcinogenicity**

- : If dusts are formed and exposure occurs: Carcinogenicity - Category 2 Suspected of causing cancer if inhaled. Contains:Glass oxide (glass fiber)

**Reproductive effects & Teratogenicity**

- : Not expected to have other reproductive effects.

**Sensitization to material**

- : May cause an allergic respiratory reaction (e.g. asthma) in some hypersensitive individuals.

**Specific target organ effects**

- : This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Medical conditions aggravated by overexposure**

- : Pre-existing skin, eye and respiratory disorders.

**Synergistic materials**

- : No information available.

**Toxicological data**

- : See below for toxicological data on the substance.

<u>Chemical name</u>	<b>LC<sub>50</sub>(4hr)</b>	<b>LD<sub>50</sub></b>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Aluminum	> 2.3 mg/L (dust) (No mortality)	> 2000 mg/kg (No mortality)	N/Av
Glass	N/Av	> 2000 mg/kg (No mortality)	> 5000 mg/kg

**Other important toxicological hazards**

- : See Section 3 for additional information.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

- : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

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**Ecotoxicity data:**

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Aluminum	7429-90-5	N/Av	N/Av	None.
Glass	65997-17-3	> 1000 mg/L (Zebra fish)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Aluminum	7429-90-5	N/Av	N/Av	None.
Glass	65997-17-3	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Aluminum	7429-90-5	N/Av	N/Av	None.
Glass	65997-17-3	> 1000 mg/L/72hr (Green algae)	≥ 1000 mg/L/72hr	None.

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Aluminum (CAS 7429-90-5)	N/Av	N/Av
Glass (CAS 65997-17-3)	N/Av	N/Av

**Mobility in soil** : Insoluble.**Other Adverse Environmental effects**

: No data is available on the product itself.

**SECTION 13. DISPOSAL CONSIDERATIONS****Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers may contain hazardous residues.**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

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**SECTION 14. TRANSPORTATION INFORMATION**

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				

**Special precautions for user** : Appropriate advice on safety must accompany the package.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
: This information is not available.

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Aluminum	7429-90-5	Yes	None.	None.	Yes	1%
Glass	65997-17-3	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Aluminum	7429-90-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Glass	65997-17-3	No	N/Ap	No	No	Yes	No	No	No

**Canadian Information:**

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Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Aluminum	7429-90-5	231-072-3	Present	Present	Not listed	KE-00881	Present	HSR001263 (coated, PGI); HSR001471, HSR001473 (coated, PGI); HSR001474 (pyrophoric); HSR001472 (uncoated, PGI)
Glass	65997-17-3	266-046-0	Present	Present	(1)-189	KE-17630	Present	May be used as a single component chemical under an appropriate group standard

**SECTION 16. OTHER INFORMATION**

**Legend**

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- EINECS: European Inventory of Existing Commercial chemical Substances
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System



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- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
  2. International Agency for Research on Cancer Monographs, searched 2016
  3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
  4. Material Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists - 2016 version.
  6. California Proposition 65 List - 2016 version.
  7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2016.

**Preparation Date (mm/dd/yyyy)**

: 06/30/2016

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b>Prepared for:</b>          Peak Products USA Corporation          c/o #203-11782 Hammersmith Way          Richmond BC V7A 5E2 Canada          Telephone #: 604-448-8000          www.peakproducts.com</p>	
<p><b>Prepared by:</b>          ICC The Compliance Center Inc.          Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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