

MATERIAL SAFETY DATA SHEET



1. PRODUCT IDENTIFICATION:

PRODUCTs NAME:	AURA™, EON™
Manufacturer Contact Information	Gracious Living Innovations, Inc. 151 Courtney Park Drive West Mississauga, Ontario, Canada L5W 1Y5 (905) 795-5505
Synonym	This MSDS covers all products that are composed of Foamed Polystyrene Polymer under the brand name Eon.
Chemical Family:	Polymer
Product Use	Various, including (but not limited to) the following: <ul style="list-style-type: none"> • Eon/AURA Decking • Eon/AURA Railing • Eon/AURA Fencing • Eon/AURA Cladding • Eon/AURA Deck Squares • Eon Window Fashions • Eon/AURA Furniture Profiles
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2. COMPOSITION:

Chemical Ingredient	%w/w	CAS Number
Polystyrene (General Purpose)	30-70%	9003-53-6
Polystyrene (High Impact)	30-70%	9003-55-8
Blowing Agents	<1%	
Inorganic Pigments	<2%	

NOTE: The products of blowing agents during manufacture are inert gases, while unreacted blowing agents remain fully encapsulated within in the polystyrene component.

3. HAZARD IDENTIFICATION:

Emergency Overview	No hazards at typical outdoor temperatures. Sawdust or dust particles created from cutting, drilling, and machining the product may be an irritant. Exposure to fire can create irritating gases and dense smoke.
Primary Routes of Entry	Eye contact. Inhalation.

Effects of Acute Exposure	<p>Eyes This product is not known to cause eye irritation. However, as with any chemical, some sensitive individuals may experience eye irritation upon contact. Sawdust or dust particles created from cutting, drilling, and machining the product during installation may be an irritant. Vapours and smoke formed when polymer is molten or ignited may be irritating to the eye.</p> <p>Skin No known acute effects of this product resulting from skin contact at typical outdoor temperatures. Molten material can cause serious burns.</p>
	<p>Inhalation Irritating vapors may form when the product is processed at high temperatures or burned. Sawdust or dust particles created from cutting, drilling, and machining the product may be an irritant.</p> <p>Ingestion No known effects are expected for ingestion of small amounts.</p>
Effects of Chronic Exposure	Not available

4. FIRST AID MEASURES:

Eye Contact	Sawdust or dust particles created from cutting, drilling, and machining the product may be an irritant. Rinse with water for a few minutes. Seek medical attention if necessary.
Skin Contact	<p>Polymer: No known effect on skin contact. Rinse off any sawdust created with water.</p> <p>Heated Polymer: For serious burns from molten heated polymer, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water.</p>
Inhalation	Negligible hazard at typical outdoor temperatures. Sawdust or dust particles created from cutting, drilling, and machining the product may be an irritant to the upper respiratory tract. Irritating vapours or smoke may form when ignited or when molten.
Ingestion	No effects are expected for ingestion of small amounts.

5. FIRE-FIGHTING MEASURES:

Flash Points	Flash Ignition 410°C / Spontaneous-Self Ignition 470°C per ASTM D1929
Products of Combustion	Carbon oxides (CO, CO ₂) and soot.
Fire Fighting Media and Instructions	Dry chemicals, Carbon Dioxide, water, or foam.
Protective Clothing (Fire)	Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Special Remarks on Fire Hazards	Fire may produce irritating gases and dense smoke.
Special Remarks on Explosion Hazards	No additional remark.

6. ACCIDENTAL RELEASE MEASURES:

Leak/Spill	Not applicable, as product is an inert solid at typical outdoor temperatures.
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7. HANDLING AND STORAGE:

Handling	Eon product will begin to deform at temperatures around 212°F (100°C)
Storage	Materials should be stored away from extreme heat and away from strong oxidizing agents.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Personal Protective Equipment:

Eyes	Safety Glasses
Body	Coveralls
Respiratory	Approved NIOSH/MSHA dust respirators are required for dusty conditions or where breathing sawdust or dust particles created from cutting, drilling, and machining the product is likely.
Hands	None required, unless product or dust products becomes an irritant during installation.
Feet	Safety footwear may be required during installation and cutting of the material.
Skin	No protection required, unless sawdust becomes irritating during installation and cutting of the material.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State and Appearance	Solid. Various profile shapes according to application
Colour	Various colours, dependent on application.
Odor	Odorless
Taste	Not available
Specific Gravity (Water = 1)	Variable with product and application (typically 0.3 to 1.0)
Water Solubility	Insoluble
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Volatility	Not applicable
VOC	None
Solubility in Water	Insoluble in water

10. STABILITY AND REACTIVITY:

Stability and Reactivity	Stable at typical outdoor temperatures. Avoid Temperatures of 600°F (316°C)
Incompatibility with Various Substances	Reactive to Strong Oxidizing agents
Hazardous Decomposition Products	Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons. Exposure of polystyrene to extremely high temperatures (600 deg F or higher) may cause partial decomposition. Chemicals that may be released include styrene monomer, benzene, and other hydrocarbons.
Hazardous Polymerization	Does not occur.

11. TOXICOLOGICAL INFORMATION:

The products of blowing agents during manufacture are inert gases. Unprocessed blowing agents remain fully mixed within in the polystyrene matrix, which virtually eliminates exposure.

Irritancy of Product	Not identified as an irritant
Sensitizing to Product	Not identified as a sensitizer
Carcinogenicity	Not identified as a carcinogen
Reproductive Toxicity	Not identified as a reproductive toxin
Teratogenicity and Embryotoxicity	Not identified as a teratogen or embryotoxin
Mutagenicity	Not identified as a mutagen
Synergistic Products	None known

12. ECOLOGICAL INFORMATION:

Environmental	Not available.
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13. DISPOSAL CONSIDERATIONS:

Dispose in accordance with all applicable regulations.
Eon material should not be disposed of through burning or combustion due to potentially irritating byproducts of combustion.
Product can be recycled where polystyrene recycling facilities exist.

14. TRANSPORT INFORMATION:

Not classified as a hazardous substance by

- DOT (U.S. Department of Transportation)
- IATA (International Air Transport Association)
- IMO International Maritime Organization

15. REGULATORY INFORMATION:

All components of this product are included on the TSCA (Toxic Substances Control Act) inventory under the US-EPA

16. OTHER INFORMATION

Not Applicable

Notice to Reader:

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be an all-inclusive protection against all hazards and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Gracious Living Innovations Inc. and any of its subsidiaries will not be liable for any damages, losses, injuries, or consequential damages which may result from the use of or reliance on any information contained herein.