INNOVATIVE PLASTICS
INCORPORATED

SAFETY DATA SHEET

SDS No: 0029

Section 1. Product and Company Identification

Product Name:	Stones
Trade Name:	Film-Stamped ABS
Recommended Use:	Signage, Other
Restrictions on Use:	None

Manufacture:	Innovative Plastics Inc. 5409 Hamlet Drive Findlay, OH 45840	
In Case of Emergency:	Call:	Medical:911 Poison Control: 800-589-3897
Information:	Call: Email:	1-815-477-0778 info@inoplas.com

Section 2. Hazard Identification

GHS Classification: Not Classified

GHS Label Elements: Not Applicable

NEW GHS Hazard Categories
Category 1 = Severe Hazard
Category 2 = Serious Hazard
Category 3 = Moderate Hazard
Category 4 = Slight Hazard
Category 5 = Minimal Hazard

GHS Rating

Health	5
Flammability	4
Instability	5
Special	

HMIS Rating

Health	0
Flammability	1
Physical Hazard	0

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 3. Composition / Information on Ingredients

Name	CAS #	% by Weight
Acrylonitrile/butadiene/styrene resin	9003-56-9	90-100%
Aluminum Flake	7429-90-5	1-5%
Carbon Black	1333-86-4	1-5%
May contain the following:		
Mineral Oil	008042-47-5	< 0.1
Tallow	008030-12-4	< 0.1
Wax	000110-30-5	< 0.1

* Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

Section 4. First Aid Measures

Inhalation:	Dust and process vapors may be irritation to the nose, throat and respiratory tract. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get Medical attention.
Eyes:	Dust, fines and process vapors may irritate the eyes. Immediately flush eyes with water for at least 15 minutes. Get medical attention.
Skin:	Exposure to molten plastic may cause thermal burns. If molten material comes in contact with the skin, cool under ice water or a running stream.
Ingestion:	No adverse health effects expected from ingestion.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Methods:	Dry Chemical, Water Spray, Foam Carbon Dioxide. Avoid using direct streams of water on molten burning material.
Unsuitable Extinguishing Methods:	NONE known.
Hazards During Fire-fighting:	Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation products.

Protective Equipment:	Wear self-contained breathing apparatus and protective suit.

Section 6. Accidental Release Measures

Personal Precautions:	See Section 8 - Exposure Controls / Personal Protection.
Environmental Precautions:	No Special environmental precautions required.

Methods and Materials for Containment and Cleaning Up

Spill / Leak:	Containment of this material should not be necessary. Sweep up or gather material and place in appropriate container for disposal.

Section 7. Handling and Storage

Handling:	Keep away from heat, flame and strong oxidizing agents.
Storage:	Keep away from heat, sparks, and flame. Store in cool place in original container and protect form sunlight.

Section 8. Exposure Control and Personal Protection

Exposure Limits:

1) Effects of Acute Exposure:	See section 11, Toxicological Information		
2) Effects of Chronic Over Exposure:	See section 11, Toxicological Information		
3) OSHA Permissible Exposure Limits:	**Chemical**	**OSHA PEL**	**ACGIH TLV**
	Corn Oil	5 mg/m3 (respirable) 15 mg/m3 (total) TWA	None Established
	Styrene	100 ppm TWA	20 ppm TWA
4) Carcinogen Potential:	See section 11, Toxicological Information		

Engineering Controls:

Use recommended safe handling practices to minimize unnecessary exposure.
General room ventilation is adequate for storage and ordinary handling.
Use local exhaust at points of fume generation or if dusty conditions prevail.

Personal Protective Equipment:

Wear safety glasses with side shields or chemical goggles to prevent eye contact.
Have eye-washing facilities readily available where eye contact can occur.
Wear impervious gloves and protective clothing to prevent skin contact.

Section 9. Physical and Chemical Properties

Appearance:	Various Colors	Vapor Pressure:	Not Applicable
Odor:	Sweet, aromatic	Vapor Density:	3.6 (styrene)
pH:	Not applicable	Relative Density:	Approx. 1.05
Melting Point / Freezing Point:	No data available	Solubility (ies):	Insoluable in water
Boiling Point:	No data available	Partition Coefficient ($_{\text{N-Octanol/Water}}$):	Not Applicable
Flash Point:	388-400°C (730-752°F)	Auto-Ignition Temperature:	739°F (393°C)
Evaporation Rate:	Not applicable	Decomposition Temperature:	Approx. 260°C (500°F)
Flammability (solid, gas):	See GHS in section 2	Viscosity:	Not Applicable
Upper Explosive Limit:	Not applicable	Specific Gravity:	1.05 - 1.12
Lower Explosive Limit:	Not applicable	Percent Volatile:	0%

Section 10. Stability Reactivity

Reactivity:	Hazardous polymerization does not occur
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	None known
Conditions to Avoid:	Avoid temperatures above 300°C (572°F). Such exposure can cause product to decompose.
Incompatible Materials:	None known
Hazardous Decomposition Products:	Thermal decomposition will generate carbon dioxide, carbon monoxide, styrene, acrylonitrile, hydrogen cyanide, hydrocarbons.

Section 11. Toxicological Information

Irritation Effects

Eye Irritation:	Solid particles may cause transient irritation from mechanical abrasion.
Skin Irritation:	Not expected to cause skin irritation. Molten material may cause thermal burns.
Inhalation:	Not a likely route of exposure. Process fumes may cause irritation.
Ingestion:	May cause a choking hazard if swallowed.

Accute Effects of Exposure: Gases and fumes evolved during thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract and cause nausea, drowsiness and headache. Not expected to cause any adverse chronic health effects.

Carcinogenicity:

None of the components present at 0.1% or greater have been classified as a carcinogen.

The Agency for Toxic Substances & Disease Registry concluded in their 2007 Toxicological Profile for Styrene that styrene may possibly be a weak human carcinogen. The EPA has not given a formal carcinogen classification to styrene stating "Several epidemiologic studies suggest there may be an association between styrene exposure and an increased risk of leukemia and lymphoma. However, the evidence is inconclusive due to confounding factors." In 2011 the National Toxicology Program listed styrene as reasonably anticipated to be a human carcinogen based on limited evidence from studies in humans, sufficient evidence from studies in experimental animals, and supporting data on mechanisms of carcinogenesis.

Data for styrene copolymers (proprietary)

IARC - Overall evaluation: 2B Possible Carcinogen

IARC - Evidence of carcinogenicity in humans: Limited data

NTP - Reasonably anticipated to be a human carcinogen

ACGIH - A4: Not classifiable as a Human Carcinogen

Additional Toxicological Information: Toxicity data is based on similar to ABS resins.

There is limited evidence for the carcinogenicity of styrene in humans based on studies of workers that showed an increased mortality from or incidence of cancer of the lymphohematopoietic system and increased levels of DNA adducts and genetic damage in lymphocytes from exposed workers. However, the types of lymphohematopoietic cancer observed in excess varied across different studies and excess risk was not found in all cohorts. In standard mutagenicity tests, both positive and negative results were reported. Some toxic effects on the fetus were noted in a limited inhalation study using repeated high doses.

Section 12. Ecological Information

Eco-toxicity:	Toxicity to fish - No relevant studies identified.
Persistence and Degradability:	This material is not expected to be readily biodegradable.
Bio-accumulate Potential:	Product is not likely to accumulate in biological organisms.
Mobility in Soil:	This Product has not been found to migrate through soils.
Other Adverse Effects:	This Substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Ecological Data for Acrylonitrile/Butadiene/Styrene Terpolymer

Biodegradation:	Not readily biodegradable
Bioaccumulation:	Does not bioaccumulate
Acute and Chronic Toxicity to Fish:	LC50: 18 mg/L/96 hr common carp (cyprinus carpio)

Section 13. Disposal Considerations

Product Recommendation:

1. Recycle (Reprocess) if product has not been contaminated so as to make it unsuitable for its intended use.

2. Disposal through controlled incineration or authorized waste dump in accordance with Local, State or Federal Regulations.

Uncleaned Packaging Recommendation:

1. Disposal must be done in accordance with Local, State, or Federal Regulation.

Section 14. Transportation Information

UN Number:	Not Relevant
UN Proper Shipping Name:	Not Relevant

Transportation Hazard Class(es)

DOT:	Not Regulated/classified
ADR / RID:	Not Regulated/classified
IMDG:	Not Regulated/classified
ICAO/IATA	Not Regulated/classified

Packing Group:	Not Applicable
Environmental Hazards:	Not Relevant
Transportation in Bulk (According to Annex II of MARPOL 73/78 and IBC Code):	Not Relevant
Special Precautions for User:	No special precautions

Section 15. Regulatory Information

United States Federal Regulations

US OSHA Hazard Communication Classification: This product is hazardous under the criteria of the Federal OSHA Hazard

US Toxic Substance Control Act: All the components of this product are listed on the TSCA Inventory

US EPA CERCLA Hazardous Substances (40 CFR 302):

Components

Styrene 100-42-5 <0.1% RQ=1000 lbs

SARA Section 311/312 Hazard Categories: Not Hazardous

US EPA Emergency Planning and Community Right to Know Act (EPCRA) SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Components

None

Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required:

Components

Styrene 100-42-5 < 0.1%

US EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous

If discarded in purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

State Right-to-Know Information

The following chemicals are specifically listed by individual states; other product specific data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists		
Weight%	**Components**	**CAS-No.**
>=1%	Acrylonitrile/Butadiene/Styrene Terpolymer	9003-56-9

Canadian Regulations

Canadian CEPA Status: All of the components of this product are listed on the DSL.

OSHA HazCom:	This Material is not Hazardous b OSHA Hazardous Communication Standard 29 CFR 1910.1200	
SARA 313:		
Immediate Hazard: NO	**Fire Hazard**: NO	**Reactivity Hazard**: NO
Delayed Hazard: NO	**Pressure Hazard**: NO	

Section 16. Other Information

No Additional Information

NOTICE: The information presented in this Safety Data Sheet is based on data considered to be accurate as of the date this Safety Data Sheet was prepared. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In additional, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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