

SDS No: 0026

Section 1. Product and Company Identification	
Product Name:	Silks
Trade Name:	ABS
Recommended Use:	Signage, Other
Restrictions on Use:	None

Manufacture: Rowmark 5409 Hamlet Drive Findlay, OH 45840	In Case of Emergency: Call: Medical: 911 Poison Control: 800-589-3897
	Information: Call: 1-877-ROWMARK Email: techhelp@rowmark.com

Section 2. Hazard Identification	
GHS Classification:	Not Classified
GHS Label Elements:	Not Applicable
GHS Rating	
Health	5
Flammability	4
Instability	5
Other	
	NEW GHS Hazard Categories Category 1 = Severe Hazard Category 2 = Serious Hazard Category 3 = Moderate Hazard Category 4 = Slight Hazard Category 5 = Minimal Hazard

Section 3. Composition / Information on Ingredients		
Name	CAS #	% by Weight
Acrylonitrile/butadiene/styrene resin	009003-56-9	90-100%
May contain the following:		
Mineral Oil	008042-47-5	0-2%
Tallow	008030-12-4	0-2%
Wax	000110-30-5	0-2%

* 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
If Molten:	Allow material to cool and place into an appropriate marked container for disposal.

Section 7. Handling and Storage	
Handling:	Keep away from heat, flame and strong oxidizing agents. Good housekeeping and controlling dusts are necessary for safe handling of product. Workers should be protected from the possibility of contact with molten resin during fabrication. Large masses of molten polymer held at elevated temperatures for extended periods of time may auto-ignite.
Storage:	Keep away from heat, sparks, and flame. Store horizontally in cool, dry place in original container and protect from sunlight.

Section 8. Exposure Control and Personal Protection**Exposure Limits:**1) **Effects of Acute Exposure:** See section 11, Toxicological Information2) **Effects of Chronic Over Exposure:** See section 11, Toxicological Information

3) OSHA Permissible Exposure Limits	Chemical	OSHA PEL	ACGIH TLV
	Corn Oil	5 mg/m ³ (respirable) 15 mg/m ³ (total) TWA	None Established
	Styrene	100 ppm TWA 200 ppm Ceiling 600 ppm Max concentration (5 min in any 3 hrs)	20 ppm TWA 20 ppm STEL

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 color	Vapor Pressure:	Not applicable
Odor:	Aromatic	Vapor Density:	3.6 (styrene)
pH:	Not applicable	Relative Density:	Approx. 1.05
Melting Point / Freezing Point:	Not established	Solubility (ies):	Insoluble in water
Boiling Point:	Not Applicable	Partition Coefficient (N-Octanol/W _ε):	Not applicable
Flash Point:	388-400°C (730-752°F)	Auto-Ignition Temperature:	495-510°C (923-950°F)
Evaporation Rate:	Not Applicable	Decomposition Temperature:	Approx. 260°C (500°F)
Flammability (solid, gas):	Dust and molten material are flammable	Viscosity:	Not applicable
Upper Explosive Limit:	Not established	Specific Gravity:	1.05-1.12
Lower Explosive Limit:	Not established	Percent Volatile:	

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.

General Effects of Exposure**Acute 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.**Chronic (non-cancer) Effects of Exposure:** 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.

Styrene **IARC** - Overall evaluation: 2B Possible carcinogen
IARC - Evidence of carcinogenicity in animals: Limited data
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

When used and handled according to specifications, the product does not have any harmful effects according to research and information provided by suppliers.

Carcinogenic Effect

International Agency for Research on Cancer (IARC) : Group3 NOT classifiable as to its carcinogenicity to humans.

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)

Ecological Data for Styrene

Biodegradation:	
Biological Oxygen Demand (BOD):	5 days, 2.46 mg/L
Chemical Oxygen Demand:	2800-2880 mg/g
Theoretical Biological Oxygen Demand (ThBOD):	3.07 mg/L
Bioaccumulation:	Carp 13.5 BCF

Section 13. Disposal Considerations

Disposal Methods

- 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
TDG:	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

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety 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

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).


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	

 **WARNING:**
This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer.
For more information go to www.P65Warnings.ca.gov

Section 16. Other Information

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 addition, 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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