

## A Safety Data Sheet is not legally required for this product under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The following information is provided as a courtesy service to our customers.

SECTION 1: IDENTIFICATION	
Product identifier	
Trade name:	POLYETHYLENE FOAM PRODUCTS, natural plus colors*, Including ProFoam <sup>®</sup> Roll, Sheet & Pouch products, ProLam <sup>®</sup> & ProPlank <sup>®</sup> products, EnviroWrap <sup>®</sup> Roll, Sheet & Pouch products
	* This MSDS pertains only to natural and/or pigmented products formulated without anti-static and/or fire retardant additives, adhesive components, or other specialty additives.
Synonym(s):	None known
Preparation/Revision date:	2 March 2020
Relevant identified uses of the substance or mi	xture and uses advised against
Identified uses: Uses advised against:	Protective packaging – Flexible polyethylene foam None known
Details of the supplier of the safety data sheet	
Manufacturer / Supplier	
Company name: Address:	Crownhill Packaging 8905 Goreway Drive Brampton, ON Canada L6T 0B7
Customer service:	905-494-1191
Emergency telephone number	<b>24-Hour Emergency Contact:</b> Chemtrec: (800) 424-9300

#### SECTION 2: HAZARDS IDENTIFICATION

## Classification of the substance or mixture

Not regulated per OSHA Hazard Communication Standard 29 CFR 1910.1200.

This product conforms to the U.S. OSHA Hazard Communication Standard's definition of an "Article," i.e., "...a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical , and does not pose a physical hazard or health risk to employees.

## Label elements

Contains:	None
Hazard pictogram:	None
Signal word:	None
Hazard statement:	None
Precautionary statements:	
- Prevention:	None
- Response:	None
- Storage:	None
- Disposal:	None
Supplemental label information:	None
Other hazards	None

# Hazard summary

Physical hazards:	Not classified for physical hazards.
Health hazards:	Not classified for health hazards.
Environmental hazards:	Not classified for hazards to the environment.
Main symptoms:	Eye contact may clause slight irritation. In rare cases, sensitive
	individuals may experience irritation or reddening of skin.
	Inhalation of processing fumes or dusts may cause upper
	respiratory irritation.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

This product conforms to the U.S. OSHA Hazard Communication Standard's definition of an "Article," i.e., "...a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees." The following information is provided as a courtesy.

Chemical Name	Percent	CAS No.	Notes
Polyethylene resin	≥ 84		
Ethene/Butene Copolymer		25087-34-7	
Tris-nonylphenyl phosphite		26523-78-4	
Polyethylene Homopolymer		9002-88-4	
Crystalline silica		68855-54-9	
Hydrocarbon Foaming Agents	≤ 5		
Isobutane		75-28-5	
n-butane		106-97-8	
Talc (Magnesium silicate)	≤ 4	14807-96-6	
Foam Processing Aid, Monodiglycerides	≤ 2	67701-33-1	
Organic and/or inorganic colorants	≤ 5	Various	

**Composition comments:** Organic and/or inorganic colorants, which may include carbon black pigment which is thoroughly bound to the polymer matrix.

SECTION 4: FIRST AID MEASURES	
General Information	Show this Safety Data Sheet to the medical professional in attendance. Adverse health effects are not anticipated with use of this product as intended. If symptoms occur, follow first aid measures as appropriate.
Description of first aid measures	
Inhalation:	If symptoms are experienced, move victim to fresh air, if symptoms persist, obtain medical attention.
Skin contact:	Wash contaminated skin with mild soap and water. Get medical attention if irritation develops or persists.
Eye contact:	Rinse immediately with plenty of water, including under the eyelids. Get medical attention if irritation develops or symptoms persist.

SECTION 4: FIRST AID MEASURES (CONT'D)	
Ingestion:	If gastric irritation or discomfort persists seek medical advice.
Notes to Physician:	None specified
Most important symptoms	Eye contact may clause slight irritation. In rare cases, individuals may
and effects, both acute and delayed	experience irritation or reddening of skin. Inhalation of processing fumes or dusts may cause upper respiratory irritation.
Indication of any immediate medical attention and special treatment needed	None known

# SECTION 5: FIRE FIGHTING MEASURES

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General fire hazards	Flammability not established for product as a whole. Polyethylene is combustible. The polyethylene foam also contains some residual flammable blowing agent, which might accumulate in confined spaces to produce concentrations in the explosive range. Processes such as grinding could produce fine dust and flammable vapors. Both could be potential explosion hazards.
Extinguishing Media	
Suitable extinguishing media:	Water, Foam, Dry Chemical, Carbon Dioxide. Use extinguishing media appropriate for surrounding material.
Unsuitable extinguishing media:	None known
Special hazards arising from the	Temperatures above 480°F could cause product degradation potentially
substance or mixture	producing toxic vapors including carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and/or alcohols.
Advice for firefighters	

Special protective equipment for firefighters:	Firefighters should use self-contained breathing
	apparatus and wear full protective equipment.
	Personnel / bystanders should be kept upwind of fire.
Special firefighting procedures:	Not applicable
Special remarks on fire hazards:	None

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Protective clothing is not required under normal conditions of intended use, however, the use of gloves and safety glasses is consistent with good manufacturing and hygienic practice.
Methods and materials for containing and cleaning up	No special measures necessary beyond general housekeeping. Pick up and retain material for recycling or disposal.

## SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Further processing of polyethylene foam products with any fabrication processes such as slitting, grinding, skiving, sawing, routing, or die cutting that cuts cells can release residual flammable blowing agent. A flammable concentration could accumulate if air is not properly circulated. All sources of ignition should be prevented in areas where foam is fabricated. Humidifiers or ionized air blowers can be used to reduce the possibility of static spark. Grinding equipment and any bins or hoppers should be purged with a positive air flow to dissipate any build-up of blowing agent gases. Monitoring systems should be in place to insure that a concentration of blowing agent does not accumulate during shutdowns or malfunctions. For hot wire cutting or thermal welding air flow should be provided to adequately disperse potential blowing agent build up. Control any vapor or dust emissions that may be generated by further processing of product.
Conditions for safe storage	Always store polyethylene foam products in well-

including any incompatibilities

Always store polyethylene foam products in wellventilated areas. Always keep foam products away from excessive heat and any sources of ignition such as sparks or flame. Never store foam in confined areas or sealed-off compartments. Foam scrap or fabricated parts for disposal should be stored and shipped in ventilated containers. When opening doors and unloading foam shipments, extinguish all possible sources of ignition such as matches, cigarettes, sparks, and lighters. Allow air circulation into the trailer for ten minutes after opening trailer doors before unloading foam.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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further processed producing dust or fumes. General		
ventilation may also be used, but local ventilation is usually preferable.		
wearing safety glasses is consistent with good		

# United States. Occupational Exposure Limits

Thermal hazards:

None known

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Form	Solid plastic foam	Explosive properties	Not applicable
Color	Various colors	Explosive limit	Not applicable
Odor	Odorless	Vapor pressure	Not applicable
Odor threshold	Not applicable	Vapor density	Not applicable
рН	Not applicable	Evaporation rate	Not applicable
Melting/freezing point	220°F	Relative density	0.87-1.05 (polyethylene
Boiling point, initial point and boiling range	Not applicable	Partition coefficient (n-octanol/water)	Not applicable
Flash point	Not applicable	Solubility (water)	Insoluble in water
Auto-ignition	343°C (polyethylene resin)	Decomposition	> 480°F

Flammability (solid, gas)	Will burn but does not ignite	Bulk density	Not applicable
Flammability limit-	Not applicable	Viscosity	Not applicable
Flammability limit-	Not applicable	VOC (weight %)	Not applicable
Oxidizing properties	Not applicable	Percent volatile	Not applicable

SECTION 10: STABILITY AND REACTIVITY	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Incompatible materials	Strong oxidizers
Hazardous decompositions products	Temperatures above 480°F could cause product degradation potentially producing toxic vapors including carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and/or alcohols.

## SECTION 11: TOXICOLOGICAL INFORMATION

# General information on likely routes of exposure

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Ingestion:	No adverse effects known to be associated with
	ingestion of small amounts of this inert material.
	Ingestion of large quantities may result in
	gastrointestinal discomfort or distress.
Inhalation:	Inhalation of fumes from heated plastic may cause
	irritation of respiratory tract, chest discomfort,
	and/or dizziness. Inhalation of dust may cause
	respiratory irritation. Polyethylene dust from
	grinding and pulverizing operations is considered
	nuisance dust.
Skin contact:	In rare cases, contact with sensitive individuals' skin may
	result in irritation or reddening of skin.
Eye contact:	May cause slight irritation.
Symptoms:	Eye contact may clause slight irritation. In rare cases,
	sensitive individuals may experience irritation or
	reddening of skin. Inhalation of processing fumes or
	dusts may cause upper respiratory irritation.
11.1 Information on toxicological effects	
Acute Toxicity:	No data were identified for this product as a whole.
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	<ul> <li>Polyethylene resin (main ingredient) not considered to be toxic to humans or animals. Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats. Animal studies showed no adverse health effects on the digestive system when fed up to 20% polyethylene.</li> <li>No data were identified for this product as a whole. At</li> </ul>
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Serious Eye Damage/Irritation:	<ul> <li>Polyethylene resin (main ingredient) not considered to be toxic to humans or animals. Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats. Animal studies showed no adverse health effects on the digestive system when fed up to 20% polyethylene.</li> <li>No data were identified for this product as a whole. At elevated temperatures, such as produced by hot cutting, fumes may cause eye irritation.</li> <li>No data were identified for this product as a whole. No skin effects are expected from polymer contact.</li> <li>No data were identified for this product as a whole.</li> </ul>
Serious Eye Damage/Irritation: Skin corrosion/Irritation:	<ul> <li>Polyethylene resin (main ingredient) not considered to be toxic to humans or animals. Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats. Animal studies showed no adverse health effects on the digestive system when fed up to 20% polyethylene.</li> <li>No data were identified for this product as a whole. At elevated temperatures, such as produced by hot cutting, fumes may cause eye irritation.</li> <li>No data were identified for this product as a whole. No skin effects are expected from polymer contact.</li> </ul>
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Germ Cell Mutagenicity:

No data were identified for this product.

## SECTION 11: TOXICOLOGICAL INFORMATION (CONT'D)

Carcinogenicity: Reproductive Toxicity: Developmental Effects:	Crystalline silica (< 0.1%): IARC-classified 1 (Proven for human); NTP-Classified 2 (Reasonably anticipated) target organ is the lung. Release of these materials may occur in small quantities during processing of the product, but is not expected to present a hazard. No data were identified for this product. No data were identified for this product.
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STOT – Single Exposure:	No data were identified for this product.
STOT – Repeated Exposure:	No data were identified for this product as a whole.
	Subchronic (50 to 90 day) feeding studies conducted on
	rats, dogs, and swine showed no effects from dietary
	levels of 1 to 20% powdered and shredded
	polyethylene.
Aspiration Hazard:	Not relevant based on physical form of the product.
Conclusion/Summary	Eye contact may clause slight irritation. In rare cases, sensitive individuals may experience irritation or reddening of skin. Inhalation of processing fumes or dusts may cause upper respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION		
Ecotoxicity	No data were identified for this product as a whole. Polyethylene resin (main ingredient) ecotoxicity is expected to be low.	
Persistence and degradability	No data were identified for this product.	
Bioaccumulative potential	No data were identified for this product as a whole. Polyethylene resin (main ingredient) is not expected to bioaccumulate.	
Mobility	No data available	
Results of PBT and vPvB assessment	Not a PBT or vPvB material	
Other adverse effects	None known	

Conclusion/Summary

The material should pose no significant hazard to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Residual waste:	Dispose as normal, non-hazardous, solid waste, in accordance with applicable Federal, State and Local regulations.
Contaminated packaging:	Dispose as normal, non-hazardous, solid waste, in accordance with applicable Federal, State and Local regulations.
Disposal methods/information:	This material is NOT classified as a Hazardous Material by RCRA.

TION 14: TRANSPORT INFORMATIO
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UN Number	Not applicable, not regulated as hazardous for transport.
UN proper shipping name	Not applicable, not regulated as hazardous for transport.
Transport hazard class(es)	Not applicable, not regulated as hazardous for transport.
Packing group	Not applicable, not regulated as hazardous for transport.
Environmental hazards	Not applicable, not regulated as hazardous for transport.
Special precautions for user	Not applicable, not regulated as hazardous for transport.
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	Not applicable, not regulated as hazardous for transport.

The transport regulation may vary based on the country of use. Check for the appropriate regulations in the country of transport or usage of this product.

#### SECTION 15: REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **USA Federal Regulations**

29 CFR 1910.1200 Hazard Communication Standard (HCS): TSCA (TSCA 12b):

CERCLA 102A / 103: SARA III, Sec. 302: CALIFORNIA PROPOSITION 65: Not regulated Nonylphenol (a trivial component of polyethylene) None None No label required.

#### **Other Regulations**

All shipping mailer packaging and packaging components comply with the several United States' enacted provisions of the Coalition of Northeast Governors ("CONEG") legislative model for the reduction of toxics in packaging and the California Toxics in Packaging Prevention Act. The manufacturing practices prohibit the intentional introduction of cadmium(Cd), hexavalent chromium(Cr +6), lead (Pb), or mercury (Hg) into its products' formulations. Further, the cumulative total of all such metals' incidental concentrations does not exceed 100 parts per million (ppm).

#### SECTION 16: OTHER INFORMATION

#### List of abbreviations

ACGIH	American Conference of Governmental Industrial
	Hygienists
CERCLA	Comprehensive Environmental Response,
	Compensation, and Liability Act
CFR	Code of Federal Regulations
IARC	International Agency for Research on Cancer

IBC	International Code for the Construction and Equipment
	of Ships carrying Dangerous Chemicals in Bulk
MARPOL	International Convention for the Prevention of Pollution
	from Ships
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration (United
	States)
PEL	Permissible Exposure Limit

# SECTION 16: OTHER INFORMATION (CONT'D)

PBT	Persistent, Bioaccumulative and Toxic
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
vPvB	Very Persistent and Very Bioaccumulative
SDS Revisions	SDS prepared on 6 March 2015
Disclaimer	Information provided by sources external to our
	company and set forth herein is offered in good faith as
	accurate, but without guarantee. Safety precautions
	contained herein cannot anticipate all individual and
	unique situations. Conditions of use and suitability of the
	product for particular uses are beyond our control. All
	risks of use of the product are, therefore, assumed by the
	user and we expressly disclaim all warranties of every
	kind and nature, including warranties of merchantability
	and fitness for a particular purpose in respect to the use
	or suitability of the product. Nothing herein is intended
	as recommendation for uses which infringe valid patents
	or as extension of license under valid patents.
	Appropriate warnings and safe handling procedures
	should be provided to users.