



PACTIV
Advanced Packaging Solutions

MATERIAL SAFETY DATA SHEET

Pactiv Product Name(s): **POLYETHYLENE FOAM PRODUCTS**, including
Astro-Barrier™, Astro-Foam®, Furniture Guard® Roll / Sheet products;
PolyPlank® LAM, PolyPlank® MDL, PolyPlank® PLK, PolyPlank® SFT;
Proficx® Profiles, Corner Keeper™, Edge Foam®
MSDS pertains only to products formulated without colorants, anti-static and/or
fire retardant additives, adhesive layer components, or other specialty additives.

Section I - Identification

Manufacturer: Pactiv Corporation
Manufacturer's Address: 1900 W. Field Ct.,
Lake Forest, IL 60045
Contacts: For product and MSDS information, telephone your Pactiv Corporation sales
representative or customer service representative (Telephone: 1-888-828-2850)

Section II - Ingredients

Some specific chemical identities being withheld as trade secrets, but will be revealed to health professionals per
29CFR1910.1200 (c)

List of ingredients

- Polyethylene
- Hydrocarbon Blowing Agent
- Mineral-based nucleating agents, which may contain traces of crystalline silica
- Aging catalysts (food grade).
- Organic and/or inorganic colorants, which may include carbon black pigment, which is thoroughly bound to the polymer matrix.

Section III - Physical Data

Boiling Point	Not established for product as a whole.
Vapor Pressure (mm Hg)	Not established for product as a whole.
Vapor Density (Air=1)	Not established for product as a whole.
Specific Gravity (H2O=1)	Not established for product as a whole.
Melting Point	Not established for product as a whole.
Appearance & Odor	Plastic foam. White/Natural or Pigmented. Negligible odor.

Section IV - Fire & Explosion Hazard

Flash Point	Not established for product as a whole.
Flammable Limits	Not established for product as a whole.
Extinguishing Media	Dry Chemical, Carbon Dioxide, Water, Foam

Special Fire Fighting Procedures As with any fire involving plastic, toxic fumes may be released. Use self-contained breathing apparatus.

Unusual Fire & Explosion Hazards Polyethylene is combustible. Pactiv polyethylene foam also contains some residual flammable blowing agent which might accumulate to produce concentrations in the explosive range. Processes such as grinding could produce fine dust and flammable vapors. Both could be potential explosion hazards.

Section V - Reactivity Data

Stability	Stable
Conditions & Materials to Avoid	Strong oxidizing agents.
Hazardous Decomposition	Temperatures above 480° F. could cause product degradation, potentially producing toxic vapors.
Hazardous Polymerization	Will not occur.

Section VI - Health Hazard Data

Route(s) of Entry	Ingestion unlikely, material physiologically inert. Inhalation at ambient temperatures unlikely except for dust from grinding. At elevated temperatures, such as produced by hot cutting, fumes may cause irritation. Skin contact not normally a problem. Sensitive individuals may experience dermatitis from anti-static or flame retardant additive if present.
Permissible Exposure Levels	None established for primary ingredients. The ACGIH TWA for silica is 0.05 or 0.1 mg/M ³ depending on form, for carbon black 3.5 mg/M ³ .
Health Hazards	No chronic hazards expected in normal use. Avoid dust from grinding or other operations to eliminate potential hazards of respirable, airborne silica and/or carbon black. See routes of entry for possible acute hazards.
Carcinogenicity	Airborne crystalline silica or carbon black particles of respirable size are possibly carcinogenic per IARC, known to be carcinogen per California Proposition 65. Exposures are not expected under normal conditions of foamed polyethylene products' intended use.
Symptoms of Over-exposure	For inhalation of fumes from heated plastic, irritation of respiratory tract, chest discomfort, dizziness. For skin contact with sensitive individuals, irritation or reddening of skin.
Medical Conditions Generally Aggravated by Overexposure	None expected
Emergency & First Aid Procedures	If respiratory irritation occurs, remove affected personnel to fresh air. Obtain medical attention if irritation persists or is severe. Wash contaminated skin with mild soap and water. Individuals experiencing skin sensitivity should obtain medical advice.

Section VII - Exposure Control/Personal Protection

Respiratory Protection	Not normally required. If product is being further processed producing dust or fumes local ventilation should be provided. Respiratory protection is normally only to be used as a temporary measure until proper ventilation can be installed.
Gloves	Not normally required. Could be used by individuals experiencing skin sensitivity.
Eye Protection	Not normally required, but may be recommended if product is further processed.
Other Protective Equipment	None normally required.
Ventilation	Local ventilation should be provided if product is further processed producing dust or fumes. General ventilation may also be used, but local ventilation is usually preferable. See also recommendation for ventilation in Section IX to control potential release of flammable blowing agent.

Section VIII - Spill and Leak Procedures

Spill or release Measures	No special measures should be necessary beyond general housekeeping.
Disposal Method	Dispose of in accordance with Federal, State and Local regulations.

Section IX - Precautions for Safe Handling and Use

Precautions for Handling and Storing Always store polyethylene foam products in well ventilated 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.

Whenever possible ship polyethylene foam products in ventilated trailers. 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.

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 disperse potential blowing agent build up.

Other Precautions

Control any vapor or dust emissions from further processing of product as described in section VII.

For additional information obtain the Safety Manual on Pactiv Polyethylene Foam and Plank.

Section X - Regulatory Information

SARA Title III

The Flame Retardant Product has an additive that appears on the SARA 313 list.

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.

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