



## PRODUCT INFORMATION SHEET

### Flexible Polyurethane Foam

Future Foam's family of polyurethane foam products consist of polyether and polyester urethane polymers ranging in density from one (1) pound to six (6) pounds per cubic foot. They are 90+% polyurethane polymer. Depending upon the product the balance consists of combustion modifiers and/or fillers. These materials are also referred to as FPF, PUF, combustion modified, antistatic, high resiliency, slow recovery, FuturaTex®, FutureStat®, or FutureCell®.

The foams are flexible cellular solids with cellular structures that vary with the product grade and application. They may be any color or shape. Odor is negligible. Parameters such as vapor pressure, vapor density, melting point, and boiling point are not applicable to these products. The products are essentially non-water soluble.

These products are not classified as hazardous and are not known to contain any hazardous materials. There are no known health hazards associated with these products when used as designed. It is recommended employees wash thoroughly after handling the products, before and after eating, smoking, drinking or using restroom facilities.

Manufacturing residues may cause irritation to the respiratory tract. There are no specific exposure limits established for these products. Manufacturing residues should be treated as "Nuisance Dusts" or "Particulates Not Otherwise Classified (PNOC)". The American Conference of Governmental Industrial Hygienists (ACGIH) and OSHA have established standards for such materials as noted below.

ACGIH TLV 10 mg/M<sup>3</sup> as inhalable fraction  
3 mg/M<sup>3</sup> as respirable fraction

OSHA PEL 50 mppcf or 15 mg/M<sup>3</sup> as total dust  
15 mppcf or 5 mg/M<sup>3</sup> as respirable fraction

mppcf = million particles per cubic foot (of air)  
mg/M<sup>3</sup> = milligrams of substance per cubic meter of air

These products are considered to be essentially non-toxic. Testing of aqueous extracts in rats showed the acute oral LD<sub>50</sub> was greater than 15,000 mg/Kg.

These products are not considered primary skin irritants as indicated by laboratory testing. Rubbing the product on the skin may cause mechanical irritation. Skin absorption is not expected to be significant under normal use of product. No special treatment is required for exposure.

These products are not considered to be eye irritants via standard laboratory testing procedures. Manufacturing residues may cause mechanical irritation. Should material get in the eyes, open the eyelids and hold back while flushing with water for at least 15 minutes and seek medical attention. Approved safety glasses/eye protection is recommended when cutting the products.

Storage areas should be protected by a sprinkler system meeting insurance, NFPA and/or local codes. These products are considered stable under ordinary conditions of use and storage and hazardous polymerization is not known to occur. Elevated storage temperatures, oxidizing agents, heat, flames, ignition sources, fluorine and fluorine/oxygen mixtures, burning cigarettes, space heaters, naked lights, exposed wiring or other ignition sources should be avoided. Good house keeping practices should be practiced to prevent the accumulation of foam scrap and the generation and accumulation of manufacturing residue in the workplace or in/on equipment.

Flash point, flammable limits (l<sub>el</sub>/u<sub>el</sub>), and autoignition temperature have not been established for these products. Flash point and flammable limits are normally associated with liquids or fine airborne particulate materials. These parameters have not been established for polyurethane foam products but are expected to be significantly greater than normal use conditions.

Urethane foam products are combustible and will burn once ignited, consuming oxygen and producing toxic gases (primarily oxides of carbon and nitrogen) and smoke. Burning foam may melt into pools or droplets of burning liquid. Foam may smolder and reignite. Urethane foam products treated with flame retardants may reduce the propensity of combustion.

Should these products be involved in a fire, water, foam, dry chemical, or carbon dioxide fire fighting agents may be used. Fire fighters must wear NIOSH approved full-faced positive pressure self-contained breathing apparatus and bunker gear when fighting fires.

Treat these products as a combustible solids the same as one would paper, paper products, textiles, and organic fibers.

These products are potentially recyclable. Pick-up or sweep-up large pieces of products for recycling or disposal. Sweep or vacuum manufacturing residues for disposal avoiding generating static discharges. Larger pieces of these products are recyclable. Products not collected for recycling are to be disposed of according to local, state and federal regulations.

The regulatory information below are interpretations of the regulations listed as of the date of this documents revision.

<u>SARA:</u>	302 (TPQ)	304 (RQ)	CERCLA RQ	313	RCRA code	CAA 112® TQ
	no	no	no	no	none	no

Clean Air Act: The products does not contain any Class 1 or Class 2 Ozone depletors.

Clean Water Act: These products are not listed as a Hazardous Substance under the CWA. These products do not contain any chemicals listed as priority or toxic pollutants under the CWA.

Resource Conservation and Recovery Act: If the product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with all federal, state and local laws and regulations.

Occupational Health and Safety Act: These products are articles of commerce as defined in 29 CFR 19100.1200 (e). Accordingly a material safety data sheet is not required.

Department of Transportation: These products are not hazardous as defined by 49 CFR 172.101 (US DOT).

Proper Shipping Name:	Not applicable	Hazard Class Number:	Not applicable
UN Identification Number:	Not applicable	Packing Group:	Not applicable
DOT Label(s) Required:	Not applicable	Emergency Response Guide:	Not applicable

Marine Pollutant: Marine Pollutants regulations are not applicable to these products.

Transport Canada Transportation of Dangerous Goods Regulations: These products are not considered dangerous goods.

Consumer Product Safety Improvement Act of 2008: These products are not designed nor manufactured specifically for use by children under the age of 12 years, therefore, they are not subject to Sections 101 to 108 of the Act.

EU RoHS: The Directive 2002/95/EC on the Restrictions of certain Hazardous Substances in electrical and electronic equipment, (the RoHS Directive), was established by the European Parliament to regulate various hazardous substances in electrical and electronic equipment. The directive applies "... to electrical and electronic equipment ... set out in Annex 1A to Directive No 2002/96/EC (WEEE) and to electric light bulbs, and

luminaries in households” where electrical and electronic equipment is defined as “... equipment which is dependent on electric currents or electromagnetic fields in order to work properly ...”.

Unless polyurethane foam is an integral component of “electrical or electronic equipment” it is not regulated by the RoHS. Polyurethane foam used as packaging is not an integral part of “electrical and electronic equipment” and therefore not regulated by the RoHS Directive.

With the above in mind Future Foam does not knowingly add to its foam products the hazardous substances listed and referred to in the RoHS Directive.

Substances of Very High Concern (SVHC): Future Foam does not knowingly add to its foam products any of the SVHC listed substances.

Consumer Products Safety Improvement Act (CPSIA): Future Foam does not knowingly add to its foam products any lead or lead compounds or phthalates listed in the act.

Toxics in Packaging: The regulated metals (lead, mercury, cadmium, and hexavalent chromium) are not used to produce these foam products.

This information is furnished in good faith, without warranty, expressed or implied, except that it is accurate to the best knowledge of Future Foam, Inc. The information contained in this document is related to the specific products designated herein. Future Foam, Inc, assumes no liability for the accuracy or completeness of the information contained herein.

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