

MATERIAL SAFETY DATA SHEET

BALLY REFRIGERATED BOXES, INC. - (919) 240 - 2829

IDENTIFICATION

A. Product Name: Technical Name:

C. Formula:

Bally Isocyanurate Foam Insulation Fosmed Polyurathana or Polyisocyanurate

Proprietary

INGREDIENTS

A. Polymertzed polyurethane

B. 1, 1-Dichloro-1-fluorethane (CAS No. 1717-00-8)

50%

50%

PHYSICAL DATA

A. Appearance:

B. Odor:

C. Density:

Solublity in water:

Rigid cellular plastic boards, sheets and blocks

None

1.6 - 4.0 lbs./cu. ft.

Not applicable

FIRE AND EXPLOSION DATA

A. Auto-ignition temperature:

B. Edinguishing media:

Special Fire-Fighting Procedures:

600° - 800°F (316° - 427°C)

Water, Carbon Dioxide, Foem or Dry Chemicals

Full emergency equipment with self-contained breathing apparatus

should be worn by fire fighters

PHYSICAL HAZARDS

A. Stability (conditions to avoid):

B. Incompatibility

(specific material to avoid):

C. Hazardous Decomposition Products:

D. Hazardous polymerization:

Stable

None known

Carbon diodde, carbon monoxide, possible traces of hydrogen cyanide,

halogen acids and nitrogen oxides under fire conditions

May occur if exposed to ignition sources of product combustion

HEALTH HAZARDS

A. Eve:

Skin contact: R.

Sidn absorption:

Incastion:

Inhalation:

Solid or dust may cause irritation or corneal injury due to mechanical action. Essentially noninitating to the skin, Mechanical injury only.

Skin absorption unlikely due to physical properties.

ingestion is unlikely due to physical state. Physical injury only. May cause

cholding if swallowed.

Dust may cause initiation to upper respiratory tract. Vapor/fumes generated

in thermal operation such as hot-wire cutting may cause imitation unless

area is adequately ventilated.

Repeated excessive exposures to dusts may cause respiratory initation Systemic & other effects:

and possible other respiratory effects.

FIRST AID

Impate immediately with water for at least 5 minutes. Mechanical effects

only.

Stains

Wash off with flowing water or shower.

ingestion:

No adverse effects anticipated.

Inhalation:

Remove to fresh air if effects occur. Consult a physician.

HANDLING PRECAUTIONS

A. Exposure guideline(s):

None established. For particulates which have no specific guidelines, the

Ventilation:

ACGIH TLV is 10mg/mp and the OSHA PEL is 15mg/mp reptrable.

Control airborns concentrations below the exposure guideline. Use local exhaust ventilation for dusty operation or when hot-wire cutting.

Respiratory protection:

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air purilying respirator. In dusty atmospheres, use an approved

dust respirator.

D. Sidn protection:

E. Eye protection:

No skin protection is normally required. Use safety popples. If there is a potential for exposure to particles which

could cause mechanical injury to the eye wear chemical goggles,.

DC. ADDITIONAL INFORMATION

- A. Preceutions to be taken in hendling & storage
 - 1. Store form with adequate aisleways to permit access to all areas.
 - 2. Protect indoor foam storage with fusible sprinkers when possible.
 - 3. Smoking, open flame or other ignition sources should not be allowed in foam storage areas.
 - All "Hot Work" (welding, cutting, etc.) should be completed prior to foem installation. If "Hot Work" must be done after the foem has been installed, the "Hot Work" trade must be warned.
 - Remove foam from immediate work area a sufficient distance that heat transmitted from the torch
 or through the metal will not ignite the foam.
 - Bemove all combustible meterial from vicinity of and immediately below work area.
 - Post a fire watcher equipped with a fire extinguisher during and for 30 minutes after hot operation.
 - Foam used as wall or ceiling insulation must be covered as soon as practicable with a fire resistive thermal barrier having at least a 15 minute fire finish rating. If covering is not immediately possible or practicable, post signs that a fire hazard exists because of exposed foam.
 - Hot wire cutting of foam should be done under adequate ventilation to remove furnes and gases developed.
 - 7. Do not install foam in any flue-like configuration.
- B. Environmental and disposal information
 - 1. Do not allow dust or scrap to accumulate. Keep work areas clean and orderly.
 - Scrap disposal should be done according to good industrial practice and environmental protection regulations. Incinerate or bury in an approved lendfill according to local, state and federal regulations.
- C. For more detailed information in precautions for the proper handling and storage of polyleocyanurate foam, contact the sales department, Elliott Company of Indianapolis Inc. Indianapolis, Indiana.

X. REGULATORY INFORMATION (not meant to be all-inclusive)

Notice: The information herein is presented in good faith and believed to be accurate as of the date shown. However, no warranty, expressed 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 insure 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.

A. U.S. Regulations:

This product contains the following substances subject to the reporting requirements of Section 313 of Title ill of the Superkind Amendments and Resulthorization Act (SARA) of 1986 and 40 Code of Federal Regulations (CFR), Part 372,

CHEMICAL NAME	CAS NUMBER	AMOUNT
1,1-Dichloro-1-fluoroethane	1717-00-6	5 - 15%

B. SARA Hazard Category: This product has been reviewed according to the Environmental Protection Agency (EPA) "Hazard Categories" promutgated under Sections 311 and 312 of Title III of SARA and is considered under applicable definitions, not to have any hazard category.