

MATERIAL SAFETY DATA SHEET

SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **PRO FOAM RIGID COMPONENT "B"** (#4, #8, #10, #12 AND #20 POUND)
PRODUCT USE: Rigid Polyurethane Foam

COMPANY: Motion Picture F/X Company
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EMERGENCY PHONE: In the event of a leak, fire or medical emergency involving humans and animals call **INFOTRAC 1-800-535-5053** 24 hours per day, 7 days a week. or +1-352-323-3500 (outside the US.)

SECTION II: COMPOSITION/INFORMATION ON INGREDIENTS

<u>HAZARDOUS INGREDIENT(S)</u>	<u>% (w/w)</u>	<u>ACGIH TLV</u>	<u>CAS NO.</u>
Polyether Polyol/Propoxylated Glycerol-	~95	Not Listed	25791-96-2
Polyoxyalkylene Polydimethylsiloxane Copolymer-	~1.0	Not Listed	68937-54-2
Tertiary Amine-	~1.0	Not Listed	280-57-9
4,4' Methylene bis (2-chloroaniline)-	0		
Aromatic Hydrocarbon-	0		
Cyclopentane-	0		

SECTION III: PHYSICAL DATA

Appearance and odor: Brown color liquid with an aromatic odor.

Boiling point: 390°F (aromatic hydrocarbon).

Vapor pressure: Less than 0.00005 mm Hg at 68°F (Polyols)

Solubility in water: Less than 10.0% at 77°F

pH: No data.

Specific Gravity: 1.00 - 1.05

% Volatile: 1 % max

SECTION IV: FIRE AND EXPLOSION DATA

Flash point: 300°F minimum, COC

Autoignition temperature: Not determined

Flammable limits: Not determined

General hazard: The chemical mixture can form a combustible liquid mixture at or above temperatures of flashpoint. Empty containers that retain product residue (liquid or vapor) can become dangerous. DO NOT CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OR IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and properly disposed of.

Fire Fighting: Use large quantities of water to cool off fire exposed surfaces. Use foam, dry chemical, carbon dioxide or water fog.

Special Fire Fighting Protective Media: Use self-contained breathing apparatus with full facepiece and protective clothing.

SECTION V: REACTIVITY DATA

Stability: Stable under normal conditions.

Incompatibility: This product will react with materials containing active isocyanate such as MDI, TDI, HDI, acids such as nitric acids, sulfuric acid and strong oxidizing agents. Some reactions can be violent.

Hazardous decomposition products: Combustion products are toxic gases such as carbon dioxide, carbon monoxide.

Hazardous polymerization: Will not occur.

SECTION VI: HEALTH HAZARD ASSESSMENT

General: No toxicity information is available for this specific preparation, this health hazard assessment is based on information that is available for the properties of its components.

Ingestion: If ingested, polyol mixture will likely be absorbed through gastrointestinal tract. Symptoms may include pain or discomfort in mouth, chest and stomach, vomiting, dizziness, diarrhea, faintness, weakness and coma. Polyol mixture is not a suspected carcinogen and no adverse results expected for reproductive effect.

For hydrocarbon ingredient, a small amount of this product may aspirate into the respiratory system during ingestion or vomiting. May cause mild to severe pulmonary injury, possibly progressing to death.

Eye contact: This material will slightly irritate human eyes following contact.

Skin contact: The polyol mixture contains ingredients which are of low order toxicity. But frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

Skin absorption: Systemically toxic concentrations of this product will probably not be absorbed through human skin.

Inhalation: High vapor and aerosol concentrations (greater than 1000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nerve system effects, including death.

Other effects of overexposure: No other adverse clinical effects have been associated with exposure to this material.

First aid procedure:

Skin: Wash material off skin with plenty of soap and water. If redness, itching or a burning sensation develops, seek medical attention. Remove contaminated clothing, including shoes.

Eyes: Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

Ingestion: Give 1 to 2 glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. Do not induce vomiting.

Inhalation: Get fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Call for prompt medical attention.

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Wear skin, eye, and respiratory protection during clean-up. Soak up material with absorbent and shovel into chemical waste containers or pump into waste containers. Cover containers and remove from work area.

For major spills, prevent liquid from entering into sewers, water courses or low areas. Consult experts on disposal of removed material and ensure conformity with local disposal regulations.

Container disposal: For damaged containers, empty the material in the container, dispose or recycle at appropriate location. Do not reuse.

SECTION VIII: SPECIAL PROTECTION INFORMATION

TLV or suggested control value: The permissible exposure limits are not determined.

Special precautions: Health studies have shown that many polyurethane chemicals and petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

Ventilation: If needed, use local exhaust ventilation to keep airborne concentration below TLV. Follow guidelines in the ACGIH publication "Industrial Ventilation". Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

Respiratory protection: Keep vapors to the minimum at room temperatures. If airborne concentrations exceed or are expected to exceed detectable levels, use MSHA/NIOSH approved positive pressure supplied air respirator with a full facepiece, or an air-supplied hood or positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved for protection against MDI isocyanates.

Eye protection: For open systems where contact is likely, wear goggles, full face shield may also be worn to protect against splashing.

Protective clothing: Wear long sleeve uniforms. Depending on conditions of use, additional protection may be required such as apron, arm covers or full-body suit. Wash contaminated clothing before re-wearing. Protective clothing should be selected in accordance with "Guidelines for the Selection of Commercial Protective Clothing" published by ACGIH. Wear gloves determined to be impervious under the conditions of use. Butyl rubber and nitrile rubber gloves have an excellent resistance to chemical liquid.

Other protective equipment: Eyewash station and safety shower in work area would increase safety.

SECTION IX: SPECIAL PRECAUTION AND COMMENTS

Prevent skin and eye contact: Avoid breathing vapor or aerosols. Worker should shower and change to fresh clothing after each shift. A sensitized individual should not be exposed to the product which caused the sensitization. Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool area. Individuals with existing respiratory disease such as chronic bronchitis, emphysema or asthma should not be exposed to the polyol mixture.

SECTION X: REGULATORY INFORMATION

DOT Proper Shipping Name: Polyurethane Resin Compound

DOT Hazard Class: Environmental Hazardous Substance, Liquid, N.O.S. Class 9, PG III UN 3082 (contains polycyclic organic matter Naphthalene, less than 0.1% by weight).

TSCA: The hydrocarbon ingredient is listed on the TSCA Inventory.

SECTION XI: OTHER INFORMATION

For Your Protection: The information and recommendations in the publication are, to the best of our knowledge, reliable. The toxicity and risk characteristics of products made by Motion Picture F/X Company will necessarily differ from the toxicity and risk characteristics that occur when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. MOTION PICTURE F/X COMPANY MAKES NO GUARANTY, WARRANTY, OR REPRESENTATION AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE.