



SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name: Retro-Ease
 Product Type: Foam Plastic

Company Name: Marco Industries
 Contact Information: 9410 E 54th St
 Tulsa, OK 74145
 Ph. 918-622-4535
 Fax 918-622-4536

EMERGENCY CONTACT: Safety Advisor or 911
 CHEMTREC: 1-800-424-9300

DATE: 9-15-10

SECTION 2: COMPOSITION/INGREDIENT INFORMATION

COMPONENTS	%	ACGIH TWA	OSHA PEL	OTHER
Polyethylene CAS#009002-8804	75-100			
Isobutane 000075-28-5		880 ppm		
TOTAL	100			

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	n/a	SPECIFIC GRAVITY (H ₂ O=1)	n/a
VAPOR PRESSURE (mm Hg and Temp.)	n/a	MELTING POINT	n/a
VAPOR DENSITY (Air=1)	n/a	EVAPORATION RATE (Butyl Acetate=1)	n/a
SOLUBILITY IN WATER	Insoluble	WATER REACTIVE	n/a
FLASH POINT	-117°F (isobutene)	DENSITY	0.35 lb/ft ³

APPEARANCE & ODOR: White or no colored flexible solid. No odor. Residual isobutene is colorless, with a gasoline-like or natural gas odor. Butane is reported to be detectable by odor at a range of 1262-5048 ppm (AIHA, 1989)

SECTION 4: FIRE & EXPLOSION HAZARD DATA

FLASH POINT METHOD USED	TOC
AUTO-IGNITION TEMPERATURE	n/a
FLAMABILITY LIMITS IN AIR, % BY VOLUME	
LFL	1.8% by volume (isobutene)



UFL	8.4% by volume (isobutene)
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EXTINGUISHER MEDIA	Water
SPECIAL FIRE FIGHTING PROCEDURES	Full emergency equipment with pressure demand self-contained breathing apparatus and full protective clothing should be worn by firefighters. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion
UNUSUAL FIRE and EXPLOSION HAZARDS	n/a

SECTION 5: REACTIVITY HAZARD DATA

STABILITY: <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	CONDITIONS TO AVOID: n/a
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INCOMPATIBILITY	Strong Oxidising agents
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Monoxide and other toxic gases are generated under combustion conditions
HAZARDOUS POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS: n/a

SECTION 6: HEALTH HAZARD DATA & FIRST AID MEASURES

PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> INGESTION <input type="checkbox"/> NOT HAZARDOUS	CARCINOGEN LISTED IN: <input type="checkbox"/> NTP <input type="checkbox"/> IARC Monograph <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> NOT LISTED
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HEALTH HAZARDS	ACUTE: n/a
	CHRONIC: n/a

SIGNS & SYMPTOMS OF EXPOSURE	n/a
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	None determined
EMERGENCY FIRST AID PROCEDURES	
EYE CONTACT	Dust may cause irritation or eye injury due to mechanical action. Fumes/vapors emitted during hot-wire cutting may cause eye irritation. Flush eyes with clean, lukewarm water (low pressure) occasionally lifting eyelids
SKIN CONTACT	Non-irritating to skin. Skin absorption is unlikely. Wash with soap and water
INHALATION	Dust may cause irritation to the nose, throat, and lungs. Fumes/vapors generated during not-wire cutting may cause respiratory irritation. Concentrations of the isobutene blowing agent incidental to proper handling of the product are expected



	to be well below the ACGIH recommended exposure limit or 800ppm Remove to fresh air. If not breathing, give artificial respiration. Oxygen may be given qualified personnel if breathing is difficult. Get medical attention.
INGESTION	None Determined Consult physician

SECTION 7: CONTROL & PROTECTIVE MEASURES

RESPIRATORY PROTECTION	No protection is required if isobutene levels are maintained below the ACGIH TLV of 800ppm. For exposures above TLV, take into consideration the type of application, environmental concentrations and materials being used concurrently when selecting a respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134)
SKIN PROTECTION	No special precautions
EYE PROTECTION	Wear tight-fitting safety goggles if there is a potential for exposure to flying particles
VENTILATION TO BE USED	LOCAL EXHAUST SPECIAL OTHER(specify) n/a
OTHER PROTECTIVE	n/a
HYGENIC WORK PRACTICES	n/a

SECTION 8: CONTROL & PROTECTIVE MEASURES

STEPS IF MATERIAL IS SPILLED	No special precautions are necessary
WASTE DISPOSAL	Waste may be reused, recycled, or buried in an approved landfill. Follow all regulatory requirements for disposal
PRECAUTIONS IN HANDLING & STORAGE	Flammable vapors of isobutene may be generated during unventilated storage of large amounts of this product
OTHER PRECAUTIONS/HAZARDS	This product is inert to the environment and is not expected to exhibit any significant biodegradation

SECTION 9: DISCLAIMER

The data contained herein are furnished for information only and are believed to be reliable. However, Marco Industries, Inc does not assume responsibility for any results obtained by persons over whose methods Marco Industries, Inc has no control. It is the user's responsibility to determine the suitability of these products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Marco Industries, Inc products.