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Gaco Western

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Waukesha, WI 53186  
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**POLYFOAM****PART A - ISO COMPONENT**

CHEMICAL FAMILY: Isocyanate

TRADE NAME: Poly-Iso

TRANSPORTATION EMERGENCY ASSISTANCE / CALL CHEMTREC / 800-424-9300

HMIS HAZARD RATINGS

H:2 F:0 R:1 PP:I

DEGREE OF HAZARD: 4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

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**SECTION II - HAZARDOUS SUBSTANCES**

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	% BY WT	OSHA PEL	ACGIH TLV	VAPOR PRESSURE
4,4'Diphenylmethane diisocyanate <sup>(1)</sup> CAS# 101-68-8	50 %	.02ppm	.005ppm	.0003 mm Hg (@ 68F)

(1) This chemical is subject to SARA Title III, Section 313 reporting

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**SECTION III - PHYSICAL DATA**

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**BOILING POINT:** 646 Deg F (Decomposes)      **WEIGHT PER GALLON:** 10.3 Lbs  
**% VOLATILE BY VOLUME:** A: Non-volatile  
**VAPOR DENSITY:** 8.5 (air = 1)      **EVAPORATION RATE(ether=1):** N/A

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**SECTION IV - FIRE & EXPLOSION HAZARD DATA**

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**FLASH POINT:** Non-flammable liquid  
**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, dry chemical or water fog.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes. Do not spray pool fires directly; a solid stream of water directed into hot, burning liquid can cause frothing.  
**UNUSUAL FIRE & EXPLOSION HAZARD:** Contamination with water will generate carbon dioxide gas with possible pressure build up in confined areas. Carbon monoxide may be evolved if combustion is incomplete. Poly-Iso is non-flammable and will not explode from mechanical impact. **WARNING! When exposed to open flame, cured polyurethane foam will present a serious fire hazard.**

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**SECTION V - HEALTH HAZARD DATA**

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**EFFECTS OF OVEREXPOSURE:** Skin contact may cause irritation. Eye contact causes irritation, redness, tearing and blurred vision.  
**EMERGENCY & FIRST AID:** Eye contact; Flush with water for at least 15

minutes and call a physician as soon as possible. Skin contact; Wash with soap and water and remove contaminated clothing. Ingestion; See a physician immediately.

**PRIMARY ROUTES OF ENTRY:** Dermal most likely.

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:** Repeated exposure can cause allergic reaction with development of occupational asthma. Long term repeated exposure to low vapor levels may cause chronically progressive pulmonary disease. Repeated skin contact can result in sensitization.

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**SECTION VI - REACTIVITY DATA**  
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**STABILITY:** Stable

**CONDITIONS TO AVOID:** Temperature extremes and water contamination.

**INCOMPATIBILITY:** Reacts with water, alcohol, amines, ammonia and carboxylic acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Incomplete burning may produce nitrogen oxides, hydrogen cyanide, carbon monoxide and/or carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Reacts slowly with water to produce carbon dioxide gas.

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**SECTION VII - SPILL OR LEAK PROCEDURES**  
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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** In enclosed areas, cleanup personnel should wear self-contained breathing apparatus. Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting. Poly-Iso must be neutralized with a solution of 90% water, 3-8% concentrated ammonia and detergent and allowed to react for 10 minutes. Collect into open containers and add more solution. Cover loosely to vent carbon dioxide gas generated.

**WASTE DISPOSAL METHOD:** Dispose in accordance with local, state, and federal regulations.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**  
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**RESPIRATORY PROTECTION:** Use self-contained or supplied air breathing apparatus in areas where the isocyanate concentrations are above the PEL or when the material is being heated, spray applied or applied in poorly ventilated areas.

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**VENTILATION (Local/Mechanical Exhaust):** Mechanical equipment capable of keeping vapor concentration below applicable PEL.

**PROTECTIVE GLOVES:** Chemical resistant gloves.

**EYE PROTECTION:** Safety goggles or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Eye bath & safety shower should be available. Wear protective clothing to prevent any skin contact during spray applications.

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**SECTION IX - SPECIAL PRECAUTIONS & TOXICOLOGICAL PROPERTIES**  
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**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING & STORING:** Keep containers closed and store in a cool dry place away from direct sunlight.

**TOXICOLOGICAL PROPERTIES:** The International Isocyanate Institute is presently sponsoring a lifetime study on polymeric MDI in rats for