



# MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):  
59-900-01,59-900-02,59-900-03,59-900-04

Product Name: TWIN-TIES

Release Date: November 17, 2005

## 1. Product and Company Identification

<b>Trade Name &amp; Synonyms</b> Twin -Ties	<b>MSDS Code Number</b> Refer to part number
<b>Chemical Name</b> Polyurethane polyester elastomer	<b>Manufacture / Distributor</b> GAC International Inc.
<b>C.A.S. Number</b> 26375-23-5	<b>Address</b> 355 Knickerbocker Ave. Bohemia, NY USA 11716
<b>Grades or Minor Variant Identities</b> NA	<b>Information Telephone Number</b> 1-631-419-1700
<b>Product Use (for Canada)</b> NA	<b>Emergency Telephone Number</b> 1-631-419-1700

## 2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Polyurethane from 4,4' methylenediphenyl	26375-23-5	NA	99
No hazardous ingredients			

## 3. Hazard Identification

<b>Emergency Overview</b> Caution: Contact with hot material will cause thermal burns; Toxic gases/fumes are given off during burning or decomposition and may cause allergic skin and respiratory reaction; Melted product is flammable and produces intense heat and dense smoke during burning.					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	NA	NA	NA	Acute eye contact: Mechanical irritation. Chronic eye contact: None	NA
Skin	NA	NA	NA	NA	NA
Inhalation	NA	NA	NA	Acute inhalation: No significant health hazard. Chronic inhalation: None	NA
Ingestion	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
<b>Medical Conditions Aggravated by Exposure</b> None					
<b>Carcinogenicity (IARC, NTP)</b> None					
<b>Potential Environmental Effects</b> NA					

## 4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush eyes with water	Get medical attention if irritation persists	NA
Skin	Wash exposed skin with soap and water	NA	NA
Inhalation	Remove to uncontaminated area	NA	NA
Ingestion	No adverse effects anticipated by this route of exposure incidental to prop industrial handling	NA	NA
Other	NA	NA	NA
<b>Note to Physicians (Treatment, Testing, and Monitoring)</b> NA			



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## 5. Fire and Explosion Data

<b>Flashpoint &amp; Method:</b> °C / °F N/A	<b>Flammable (Explosive) Limits in Air</b> LEL: N/A UEL: N/A	<b>Autoignition Temperature</b> NA	<b>Other</b> NA
<b>Flame Propagation or Burning</b> NA	<b>Properties Contributing to Fire Intensity</b> NA	<b>Flammability Classification</b> Health-, Flammability-, Reactivity-NA	
<b>Extinguishing Media</b> Foam, carbon dioxide, water, fog, dry chemical		<b>Extinguishing Media to Avoid</b> NA	
<b>Protection and Procedures for Firefighters</b> None			
<b>Unusual Fire and Explosion Hazards</b> None			

## 6. Accidental Release Measures

<b>Containment Techniques</b> NA
<b>Spill/Leak Clean-Up Procedures and Equipment</b> Contain and remove by mechanical means
<b>Evacuation Procedures</b> NA
<b>Special Instructions</b> NA
<b>Reporting Requirements</b> NA

## 7. Handling and Storage

<b>Handling Practices and Warnings</b> Shelf life: 2 years
<b>Storage Practices and Warnings</b> (°C / °F). Ambient. Store in sealed containers. Protect from atmospheric mixture

## 8. Exposure Control/Personal Protection

<b>Ventilation</b> Adequate ventilation practice	<b>Other Engineering Controls</b> NA	
<b>Routes of Entry:</b>	<b>Personal Protective Equipment (PPE) for Normal Use:</b>	<b>PPE for Emergencies:</b>
<b>Eye/Face</b>	Safety goggles	NA
<b>Skin</b>	None required	NA
<b>Inhalation</b>	None	NA
<b>General Hygiene Considerations and Work Practices</b> NA		
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment</b> NA		
<b>Other Protective Measures and Equipment</b> None		



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## 9. Physical and Chemical Characteristics

<b>Appearance</b> Various F.D.A. allowable colors		<b>Odor</b> Odorless
<b>Normal Physical State:</b> <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> _____ (Other)		<b>Boiling Point</b> °C / °F N/A <b>Melting Point</b> °C /390-440 °F <b>Freezing Point</b> °C / °F
<b>Specific Gravity or Density (H<sub>2</sub>O=1)</b> 1.2 g/cm <sup>3</sup>	<b>Solubility in Water</b> Insoluble	<b>pH</b> NA
<b>Vapor Pressure (mm Hg @ 20°C)</b> N/A	<b>Vapor Density (AIR= 1)</b> NA	<b>Evaporation Rate (Butyl Acetate = 1)</b> NA
<b>Other</b> Bulk density: Approx. 10.01 lbs/cm <sup>3</sup>		

## 10. Stability and Reactivity Data

<b>Incompatibility (Materials to Avoid)</b> None known	
<b>Hazardous Products Produced During Decomposition</b> By fire; carbon monoxide, carbon dioxide, traces of HCN and MDI	
<b>Hazardous Polymerization?</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	<b>Conditions to Avoid</b> °C / °F NA
<b>Stability?</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	<b>Conditions to Avoid</b> °C / °F NA

## 11. Toxicological Information

<b>Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data</b> Toxicity tests have not been conducted on this product
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## 12. Ecological Information

<b>Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements</b> None
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## 13. Disposal Considerations

<b>Regulations</b> Waste disposal method: In accordance to federal, state or local regulations
<b>Properties (Physical/Chemical) Affecting Disposal</b> NA

## 14. Transport Information

<b>Regulated for shipping?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Proper Shipping Name</b> Twin ties	<b>Packing Group</b> N/A
<b>Do changes in quantity, packaging, or shipment method change product classification?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Hazard Class</b> Non-hazardous	<b>Identification Number</b> Not hazardous by D.O.T regulations
<b>Other</b> NA		



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## 15. Regulatory Information

### Federal Regulations

SARA TITLE III: Section 302 Extremely hazardous substances: None Section 311/312 Hazard categories: None Section 313 Toxic chemicals: None RERA Status: Non-hazardous

### International Regulations

NA

### Other

HMIS RATINGS: Health 1 flammability 1 Reactivity 0 0=minimal 1= slight 2= moderate 3=serious 4= severe

## 16. Other Information

**Supplier Number:** 31/59

**Supplier Release:** January 7, 2003

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.