



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
59-950-XX

Product Name: Sili Elastomeric Ligature Ties

Release Date: March 23, 2007

1. Product and Company Identification

Trade Name & Synonyms GAC Sili Elastomeric Ligature Ties - .120	MSDS Code Number Refer to part number
Chemical Name UHMW Siloxane. Chemical family: Thermoplastic-polyurethane	Manufacture / Distributor GAC International Inc.
C.A.S. Number 26375-23-5	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) NA	Emergency Telephone Number 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

3. Hazard Identification

Emergency Overview					
Hazardous ingredients: This product has non-hazardous ingredient as defined under the criteria of the federal OSHA hazard communication standard 29 CFR 1910 1200.					
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 Yes	NA	NA	NA	Acute eye contact: Mechanical irritation. Chronic eye contact: None	NA
Skin	NA	NA	NA	NA	NA
Inhalation Yes	NA	NA	NA	Acute inhalation: No significant health hazard. Chronic inhalation: None	NA
Ingestion	NA	NA	NA	NA	NA
Other	Human effects and symptoms of overexposure: None	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure None. Exposure limits: None					
Carcinogenicity (IARC, NTP) None					
Potential Environmental Effects Potential health effects: None					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	N/A	NA	NA
Skin	N/A	NA	NA
Inhalation	N/A	NA	NA
Ingestion	N/A	NA	NA
Other	NA	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring) NA			



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5. Fire and Explosion Data

Flashpoint & Method: °C / °F N/A	Flammable (Explosive) Limits in Air LEL: N/A UEL: N/A	Autoignition Temperature NA	Other NA
Flame Propagation or Burning NA	Properties Contributing to Fire Intensity NA	Flammability Classification Health- 0, Flammability-0, Reactivity-0. 0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe	
Extinguishing Media N/A		Extinguishing Media to Avoid NA	
Protection and Procedures for Firefighters None			
Unusual Fire and Explosion Hazards NA			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment Remove by mechanical means
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA

7. Handling and Storage

Handling Practices and Warnings NA
Storage Practices and Warnings (°C / °F). Storage temperature: Ambient. Shelf life: 2 years. Special sensitivite: Handling /Storing Precautions: Store in sealed containers. Protect from atmospheric moisture.

8. Exposure Control/Personal Protection

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



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9. Physical and Chemical Characteristics

Appearance Physical form: Solid. Color: Various F.D.A allowable colors.		Odor Odorless
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> _____ (Other)		Boiling Point °C / °F N/A Melting -Freezing Point °C / 390-440 °F
Specific Gravity or Density (H₂O=1) 1.2 g / cm ³	Solubility in Water Insoluble	pH NA
Vapor Pressure (mm Hg @ 20°C) N/A	Vapor Density (AIR= 1) NA	Evaporation Rate (Butyl Acetate = 1) NA
Other Bulk density: Approx. 10.01 LBS/ CM ³ . % Volatile by volume: N/A		

10. Stability and Reactivity Data

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

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data 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.

12. Ecological Information

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

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



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14. Transport Information

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

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 NA

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.	