



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
59-200-XX (59-300-XX)

Product Name: Elasto. Ligature Chain

Release Date: June 7, 2007

1. Product and Company Identification

Trade Name & Synonyms Tuff chain	MSDS Code Number H2791000
Chemical Name Polyurethane polyester elastomer. Chemical family: Thermoplastic polyurethane. Formula: N/A-Polymeric material	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	%
	26375-23-5	N/A	99
This product has no hazardous ingredients.			

3. Hazard Identification

Emergency Overview NA					
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 Eye contact with fines(dust)	NA	NA	NA	Acute eye contact: Mechanical irritation to the eyes may occur due to exposure to fines. Chronic eye contact: None known.	NA
Skin	NA	NA	NA	NA	NA
Inhalation	NA	NA	NA	NA	NA
Ingestion	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure None known.					
Carcinogenicity (IARC, NTP) N/A					
Potential Environmental Effects NA					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush eyes with plenty of lukewarm water.	NA	NA
Skin	Wash affected area with soap and water.	NA	NA
Inhalation	Remove to fresh air.	NA	NA
Ingestion	NA	Contact a physician.	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/E UEL: N/E	Autoignition Temperature NA	Other NA
Flame Propagation or Burning NA	Properties Contributing to Fire Intensity NA	Flammability Classification Health- , Flammability- , Reactivity-	
Extinguishing Media Water, dry chemical, carbon dioxide, foam.		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 mechanically by method which minimizes airborne dust.
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 (Min/Max): Ambient. Shelf life: N/A Special sensitivite: Moisture. Material should be stored in a clean, dry environment in sealed containers. Other notes: None. Shelf life: 2 years

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	Safety glasses recommended.	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 Pellets. Color: Natural		Odor Odorless/slight	
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid <input type="checkbox"/> _____ (Other) NA		Boiling Point °C / °F <u>NA</u> Melting-Freezing Point °C / <u>390-440</u> °F	
Specific Gravity or Density (H₂O=1) Approx. 1.2 G/CM ³ at 77F (25C)	Solubility in Water Insoluble	pH N/E	
Vapor Pressure (mm Hg @ 20°C) Negligible.	Vapor Density (AIR= 1) NA	Evaporation Rate (Butyl Acetate = 1) NA	
Other Bulk density: Approx. 10.01 lbs/gal. % Volatile by volume: Negligible.			

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) None known.	
Hazardous Products Produced During Decomposition By fire: CO ₂ , CO, aromatic or aliphatic fragments, traces of HCN, 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 Instability conditions: None known.

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data N/A

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements N/A
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13. Disposal Considerations

Regulations Waste disposal method: Material may be incinerated or land filled in compliance with federal, state, and local environmental control regulations.
Properties (Physical/Chemical) Affecting Disposal NA

14. Transport Information

Regulated for shipping? <input type="checkbox"/> Yes <input type="checkbox"/> No NA	Proper Shipping Name Technical shipping name: Polyurethane polyester elastomer.	Packing Group Freight class package: Plastic materials, O/T exp., pellet.	
Do changes in quantity, packaging, or shipment method change product classification? <input type="checkbox"/> Yes <input type="checkbox"/> No	Hazard Class Non-regulated	Identification Number None	
Other Freight class bulk: None.			



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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 : 0 Flammability: 0 Reactivity: 0

0= minimal, 1=slight 2=moderate 3=serious 4=severe.

16. Other Information

Supplier Number: 31/59

Supplier Release: NA

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