



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
34-000-10

Product Name: Radiopaque Separators

Release Date: March 13, 2006

1. Product and Company Identification

Trade Name & Synonyms GAC Radiopaque separators	MSDS Code Number Product code: SS-GAC/34-000-10
Chemical Name Polyurethane polyester elastomer- Barium loaded	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	26375-23-5	N/A	88
Barium sulfate	7727-43-7	ACGIV TLV	10mg/m3 5mg/m3
		OSHA PEL	10mg/m3 5mg/m3

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	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
Medical Conditions Aggravated by Exposure None					
Carcinogenicity (IARC, NTP) None					
Potential Environmental Effects None					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	N/A	N/A	N/A
Skin	N/A	N/A	N/A
Inhalation	NA	N/A	N/A
Ingestion	N/A	N/A	N/A
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-, Flammability-, Reactivity-NA	
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 Storage temperature: Ambient. Shelf life: 2 years. Special sensitivite, Handling/ Storage precautions: Store in sealed containers. Protect from atmospheric mixture

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 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 Point °C / 390-440°F Freezing Point °C / 390-440 °F
Specific Gravity or Density (H₂O=1) 1.2G/CM3 (In water -1)	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/CM3. % 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 Instability conditions: None

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data EMERGENCY OVERVIEW: 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.
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12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements None

13. Disposal Considerations

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



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14. Transport Information

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

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: 31/34 Supplier Release: December 17, 2004 Rev: 1 N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.
