



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
54-111-02 / 54-111-03

Product Name: Autoclavable cheek retractor

Release Date: March 9, 2007

1. Product and Company Identification

Trade Name & Synonyms Autoclavable cheek retractor	MSDS Code Number CKE- 1A, 2A
Chemical Name Polymethylpentene copolymer. Formula: N/A Chemical family: Polyolefins	Manufacture / Distributor GAC International Inc.
C.A.S. Number NA	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	%
4- Methyl-1-pentene a –olefin-copolymer	NA	NA	NA
Identification numbers: None			

3. Hazard Identification

Emergency Overview					
Hazard designation: Can burn in a fire. Slippery, can cause falls if walked on. May cause environmental contamination.					
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	Solid or dust may cause irritation or scratch the surface of the eye. Contact with processing vapors may cause eye irritation.	NA	NA	NA	NA
Skin	Not irritating. Rubbing may cause irritation similar to sand or dust. Molten polymer contacting the skin will cause thermal burns.	NA	NA	NA	NA
Inhalation	Pellet is not responsible as solid. At processing high temperature, fumes irritating to the eyes, nose and throat may be produced. This exposure may result in reddening, tearing, and soreness in the nose and throat together with coughing.	NA	NA	NA	NA
Ingestion	The material is believed to present very little hazard if swallowed.	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure NA					
Carcinogenicity (IARC, NTP) NA					
Potential Environmental Effects May cause environmental contamination.					



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4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Immediately flush with water for at least 5 minutes.	Consult a physician if symptoms persist.	NA
Skin	The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin.	Get medical treatment for thermal burn.	NA
Inhalation	If exposed to fumes from overheating or combustion, move to fresh air.	Consult a physician if symptoms persist.	NA
Ingestion	No adverse effects believed by swallowing a small amount.	Consult a physician if necessary.	NA
Other	NA	NA	NA

Note to Physicians (Treatment, Testing, and Monitoring) NA

5. Fire and Explosion Data

Flashpoint & Method: 200°C or higher / °F	Flammable (Explosive) Limits in Air LEL: NA UEL: NA	Autoignition Temperature 200°C or higher	Other NA
Flame Propagation or Burning This material does not ignite easily, however, when burned without sufficient oxygen, emits dense smoke.	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 Water, fog, dry chemical foam, CO2.	Extinguishing Media to Avoid None		
Protection and Procedures for Firefighters Wear full bunker gear including a positive pressure self-contained breathing apparatus in any closed space.			
Unusual Fire and Explosion Hazards NA			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment Collect the scattered material into a container using a broom, vacuum cleaner or shovel and dispose of it. If pellets remain on the floor, they are likely to be slippery, so be sure to recover all. If the material has been spilled in a molten condition, cool it with water and dispose of it when it has been solidified. If the material has been spilled on the water surface of e.g. a drain system, birds or fish may take it in, so recover all using a collecting device such as a screen of fine meshes.
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA



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7. Handling and Storage

Handling Practices and Warnings

Avoid skin and eye contact and avoid breathing dust. Ground and bond containers when transferring material to prevent dust explosion. Pellets can create slippery conditions on floor and stairs and may cause falls. Use good housekeeping practices to keep a clean area. Cool molding residues sufficiently before dispensing of them.

Protection against fires and explosion: Keep ignition sources at a distance.

Storage Practices and Warnings

(°C / °F). To prevent change of properties and inclusion of foreign materials, avoid direct sunlight, water leak, high temperatures, high humidity and outdoor storage. Store the material away from fire or any heat source. Avoid excessive piling to prevent load shift and breakage of bags.

Storage room and container: No special requirements.

Storage class: None.

8. Exposure Control/Personal Protection

Ventilation

NA

Other Engineering Controls

Technical protective measures: There is a possibility of occurrence of volatile content, odor or dust during processing and molding, so use local exhaust ventilations as necessary. **Exposure control limits:** ACGIH (1996)

Particulates (Not otherwise classified)

10mg/m3 8 hour, TWA, inhalable

3 mg/m3 8 hour TWA, respirable.

Routes of Entry:

Personal Protective Equipment (PPE) for Normal Use:

PPE for Emergencies:

Eye/Face

Use safety glasses.

NA

Skin

Wear protective gloves to prevent skin contact. If there is potential contact with hot/molten material, wear heat resistant clothing and footwear.

NA

Inhalation

For most conditions, no respiratory protection should be needed. However in dusty atmospheres, use an approved dust respirator.

NA

General Hygiene Considerations and Work Practices

NA

Protective Measures During Repair and Maintenance of Contaminated Equipment

NA

Other Protective Measures and Equipment

Safety shower and eye wash station near work area.

9. Physical and Chemical Characteristics

Appearance

Pellets Color. Milk-white

Odor

Odorless

Normal Physical State:

Liquid Gas

Solid NA (Other)

Boiling Point °C / °F N/A

Melting Point 220-240 °C / °F

Freezing Point °C / °F NA

Specific Gravity or Density (H₂O=1)

NA

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

% volatile by volume: N/A



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10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) Oxidizing materials		
Hazardous Products Produced During Decomposition CO, CO2 in a fire.		
Hazardous Polymerization? <input type="checkbox"/> May Occur <input type="checkbox"/> May Not Occur NA	Conditions to Avoid °C / °F Do not leave material outdoors.	
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid °C / °F NA	

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data No specific data are available. Skin irritation: No irritation effect. Eye irritation: No irritation effect. Skin sensitization: No skin sensitizing effect. Subacute to chronic toxicity: No specific data are available. Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and information provided to us.
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12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements No specific data are available. Toxicity is expected to be low based on negligible water solubility of polymer. As this material does not decompose in an environment over a long period of time, it may cause environmental contamination. Avoid dumping or releasing in oceans or water areas to prevent possible intake by marine organisms and birds.
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13. Disposal Considerations

Regulations Preferred options for disposal are: Recycling, Incineration with energy recovery, landfill. The high fuel value of this product cannot be recycled. Any disposal practice must be in compliance with local and federal laws and 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 Autoclavable cheek retractor	Packing Group NA	
Do changes in quantity, packaging, or shipment method change product classification? <input type="checkbox"/> Yes <input type="checkbox"/> No NA	Hazard Class NA	Identification Number NA	
Other Not dangerous material according to these regulations. Make sure that the containers and packages are not damaged. Load and pile them so that they will not fall or get damaged. Be sure to take preventive measures against load shift. For transport, spread a cover sheet over the load to avoid inclusion of foreign materials or water and direct sunshine.			



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15. Regulatory Information

Federal Regulations

Designation according to EC guidelines: TPX is not subject to classification according to EC lists and other sources of literature to us. Classification according to VdF: None. Water hazard class: None

International Regulations NA

Other NA

16. Other Information

Supplier Number: 31/ 54

Supplier Release: February 10, 2004

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