



# MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):  
17-999-XX

Product Name: **Brace / Mouth Guards**

Release Date: March 13, 2006

## 1. Product and Company Identification

<b>Trade Name &amp; Synonyms</b> Brace / Mouth guards	<b>MSDS Code Number</b> 17-999-XX
<b>Chemical Name</b> Ethylene-Vinyl Acetate Copolymer	<b>Manufacture / Distributor</b> GAC International Inc.
<b>C.A.S. Number</b> 24937-78-8	<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	%
Ethylene-vinyl acetate copolymer	24937-78-8	NA	NA
The composition of this mixture may be proprietary information. In the event of medical emergency, compositional information will be provided to a physician or nurse. This product is hazardous as defined in 29 CFR 1910.1200, based on the following compositional information. OSHA Hazard component ACGIH/TLV Vinyl acetate Possible human carcinogen Vinyl acetate	NA	NA	NA

## 3. Hazard Identification

<b>Emergency Overview</b> 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)
<b>Eye</b>	Particulates may scratch eye surfaces.	Cause Mechanical irritation.	NA	NA	NA
<b>Skin</b>	Negligible hazard at ambient temperatures (-18 to 38 deg c; 0-100 deg F)	Exposure to hot material may cause thermal burns.	NA	NA	NA
<b>Inhalation</b>	Negligible hazard at ambient temperature (-18 to 38 deg c; 0-100 deg F)	Vapors and/ or aerosols, which may be formed at elevated temperatures, may be irritating to eyes and respiratory tract.	NA	NA	NA
<b>Ingestion</b>	Minimal toxicity	NA	NA	NA	NA
<b>Other</b>	NA	NA	NA	NA	NA
<b>Medical Conditions Aggravated by Exposure</b> NA					
<b>Carcinogenicity (IARC, NTP)</b> This product contains vinyl acetate monomer. No carcinogen effects were observed in long-term drinking water studies in rats. Long-term inhalation of this chemical at air conditions of 600 PPM produced nasal tremors in rats. Mice exposed to the same conditions were not affected. The international agency for research on cancer (IARC) evaluated vinyl acetate in 1995 and found it to be a possible human carcinogen, classification 2B. The American conference of governmental industrial hygienists (ACGIH) has evaluated vinyl acetate and found it to be a group A3, animal carcinogen. The ACGIH also reported that available evidence suggests that the agent is not likely to cause cancer in humans at the recommended exposure levels.					
<b>Potential Environmental Effects</b> NA					



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## 4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	This product is an inert solid. If in eye remove as one would any foreign object.	NA	NA
Skin	For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. No attempt should be made to remove materials from skin or to remove contaminated clothing, as the damaged flesh can be easily torn.	NA	NA
Inhalation	In case of adverse exposure to vapors/or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest.	Call for prompt medical attention.	NA
Ingestion	First aid is normally not required.	NA	NA
Other	NA	NA	NA
<b>Note to Physicians (Treatment, Testing, and Monitoring)</b> NA			

## 5. Fire and Explosion Data

<b>Flashpoint &amp; Method:</b> °C /649 °F Note: Estimated, greater than.	<b>Flammable (Explosive) Limits in Air</b> LEL: N/A      UEL: N/A	<b>Autoignition Temperature</b> N/A	<b>Other</b> General hazard: Solid material may burn at or above flashpoint, and airborne dust may explode if ignited. Toxic chemicals will form upon combustion. Static discharge, material can accumulate static charges, which can cause an incendiary electrical discharge.
<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> NA		<b>Extinguishing Media to Avoid</b> NA	
<b>Protection and Procedures for Firefighters</b> Firefighting instructions: Use water spray to cool fire-exposed surfaces, protect personnel, and extinguish the fire. Respiratory and eye protection required for fire fighting personnel.			
<b>Unusual Fire and Explosion Hazards</b> Oxygen-lean conditions may produce carbon monoxide and irritating smoke, acetic acid.			



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## 6. Accidental Release Measures

### Containment Techniques

Land spill: Recover spilled material and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### Spill/Leak Clean-Up Procedures and Equipment

Water spill: Plastic pellets are defined by the USA EPA under the clean water act (40CFR 122.26) as a "significant material" which requires any industrial plant that may expose pellets to storm water to secure a storm water permit. Violations of the rule carry the same penalties as other clean water act violations. Pellets found in storm water runoff are subject to EPA regulations with the potential for substantial fines and penalties. Skin from surface. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Recover the spilled material and place in suitable containers for recycle or disposal.

### Evacuation Procedures

NA

### Special Instructions

NA

### Reporting Requirements

NA

## 7. Handling and Storage

### Handling Practices and Warnings

Electrostatic Accumulation handling: Yes, use proper bonding and/or grounding procedure.

### Storage Practices and Warnings

(°C / °F). Storage temperature: Deg F Ambient.

Loading /Unloading temperature: Deg F Ambient.

Storage/Transport pressure MMHG: Atmospheric. Loading/unloading viscosity, CST: Solid.

Storage and handling: Keep container closed. Handle and open containers with care. Store in a cool, well-ventilated place away from incompatible materials. Do not handle or store near an open flame, heat or other source of ignition. Protect material from direct sunlight. Material may accumulate static charges, which may cause an electrical spark (ignition source). Use proper bonding and /or grounding procedures. **Shelf life:** 3 years.

## 8. Exposure Control/Personal Protection

### Ventilation

Local exhaust ventilation of process equipment may be needed to control particulate exposures to below the recommended exposure limit.

### Other Engineering Controls

NA

Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Wear face shield	NA
Skin	Where contact may occur with hot material, wear thermal resistant gloves, arm protection, and a face shield. Where contact is likely with open systems at ambient temperatures (-18 to 38 deg c, 0-100 deg F) wear safety glasses with side shields.	NA
Inhalation	NA	NA



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### General Hygiene Considerations and Work Practices

OSHA regulation 29CF1910.1000 requires the following permissible exposure limits. 5/MG/M3 (respirable dust) and 15/MG/M3 (total dust) based on OSHA PEL for nuisance dust. A TWA of 10PPM (30MG/M3) and a STEL of 20PPM (60MG/M3) for vinyl acetate. The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11<sup>th</sup> circuit court of appeals, Exxon Mobil chemical company recommends that the lower exposure levels be observed as reasonable worker protection.

The ACGIH recommends the following threshold limit values. A TWA of 10/MG/M3 for inhalation particulate (total dust) and a TWA OF 3 MG/M3 for respirable particulate (total dust) for particulates not otherwise classified (PNOC). A TWA OF 10 PPM (35MG/M3 and a STEL of 15PPM (53MG/M3) for vinyl acetate, with an A3 designation.

### Protective Measures During Repair and Maintenance of Contaminated Equipment

NA

### Other Protective Measures and Equipment

NA

## 9. Physical and Chemical Characteristics

<b>Appearance</b> Pellets. Color: Opaque white to transparent		<b>Odor</b> NA
<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> <u>NA</u> / °F <b>Melting Point</b> <u>99-115°C / 210-240°F</u> <b>Freezing Point</b> °C / °F <u>NA</u>
<b>Specific Gravity or Density (H<sub>2</sub>O=1)</b> .091- .96	<b>Solubility in Water</b> Insoluble	<b>pH</b> NA
<b>Vapor Pressure (mm Hg @ 20°C)</b> NA	<b>Vapor Density (AIR= 1)</b> NA	<b>Evaporation Rate (Butyl Acetate = 1)</b> NA
<b>Other</b> Viscosity of liquid: N/A		

## 10. Stability and Reactivity Data

<b>Incompatibility (Materials to Avoid)</b> Temperatures above 300 °F (150 °C) with fluorine.	
<b>Hazardous Products Produced During Decomposition</b> N/A	
<b>Hazardous Polymerization?</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	<b>Conditions to Avoid</b> °C / °F N/A
<b>Stability?</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	<b>Conditions to Avoid</b> °C / °F N/A

## 11. Toxicological Information

**Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data**  
Please refer to section 3 for available information on potential health effects.

## 12. Ecological Information

### Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

No specific ecological data are available for this product. Please refer to section 6 for information regarding accidental releases and section 15 for regulatory reporting information.



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## 13. Disposal Considerations

### Regulations

Please refer to sections 5,6 and 15 for disposal and regulatory information.

Properties (Physical/Chemical) Affecting Disposal NA

## 14. Transport Information

### Regulated for shipping?

Yes  No

### Proper Shipping Name

Brace Guards

### Packing Group

NA

### Do changes in quantity, packaging, or shipment method change product classification?

Yes  No

### Hazard Class

NA

### Identification Number

NA

### Other

Not regulated under US Department of Transportation.

## 15. Regulatory Information

### Federal Regulations

CERCLA: If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the comprehensive environmental response, compensation, and liability act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARATITLE III: Under the provisions of TITLE 111, sections 311/312 of the superfund amendments and reauthorization act, this product is classified into the following hazard categories: Delayed health. This information may be subject to the provisions of the community right-to-know reporting requirements (40CFR 370) if threshold quantity criteria are met. This component vinyl acetate CAS NO.108-05-4 Maximum % .2

International Regulations NA

### Other

HMIS RATINGS: Health 0 Flammability 0 Reactivity 0.

NFPA Health 1 Flammability 1 Reactivity 0.

0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe.

The CAS Registry No for Ethylene-vinyl acetate copolymer is 24937-78-8. National fire protection association standards NFPA 654 AND 68 indicate possible explosion hazard of dust particles. Conform accordingly. Avoid accumulation of dust or dust clouds; Operate handling and storage systems leak free, practice good housekeeping. Keep from sources of ignition. Do not store near heat, flame, or strong oxidants. Assure proper electrical grounding of all handling equipment. Product may also contain varying levels of additives, such as slip and anti-blocking agents, antioxidants, stabilizers, and corrosion inhibitors.

Special Precautions: Should significant vapors/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products, vinyl acetate and acetic acid which may evolve elevated temperatures. It is recommended that the current ACGIH-TLV'S for these materials be observed.

## 16. Other Information

Supplier Number: 31/17

Supplier Release: February 8, 2006 Rev: 03

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