



# MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):  
35-XXX-XX

Product Name: Oyster ESL

Release Date: February 14, 2006

## 1. Product and Company Identification

<b>Trade Name &amp; Synonyms</b> Oyster ESL	<b>MSDS Code Number</b> <b>Product code:</b> Orthodontic brackets to be bonded on teeth.
<b>Chemical Name</b> NA	<b>Manufacture / Distributor</b> GAC International Inc.
<b>C.A.S. Number</b> 25640-14-6	<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	%
Copolyester	25640-14-6	NA	>70
Additive(s) colorant(s)	Proprietary	NA	<30

## 3. Hazard Identification

**Emergency Overview:** Handle in accordance with good industrial hygiene and safety practice. **HMIS® Hazard Ratings:** Health –1 Flammability –1, Chemical Reactivity –0. **Note:** HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

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	NA	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
<b>Medical Conditions Aggravated by Exposure</b> NA					
<b>Carcinogenicity (IARC, NTP)</b> None					
NA					

## 4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.	Get medical attention immediately.	NA
Skin	If burned by contact with molten material, cool as quickly as possible. Do not peel material from skin.	Get medical attention.	NA
Inhalation	If symptomatic, move to fresh air.	Get medical attention if symptoms persist.	NA
Ingestion	Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.	NA	NA
Other	NA	NA	NA

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

Burns should be treated as thermal burns. The material will come off as healing occurs; therefore immediate removal from the skin is not necessary.



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## 5. Fire and Explosion Data

<b>Flashpoint &amp; Method:</b> °C / °F N/A, combustible solid.	<b>Flammable (Explosive) Limits in Air</b> LEL: NA UEL: NA	<b>Autoignition Temperature</b> NA	<b>Other</b> NA
<b>Flame Propagation or Burning</b> NA	<b>Properties Contributing to Fire Intensity</b> NA	<b>Flammability Classification</b> Health-1, Flammability-1, Reactivity-0	
<b>Extinguishing Media</b> Water spray, dry chemical.		<b>Extinguishing Media to Avoid</b> NA	
<b>Protection and Procedures for Firefighters</b> Wear self-contained breathing apparatus and protective clothing.			
<b>Unusual Fire and Explosion Hazards</b> Powdered material may form explosives dust air mixtures. <b>Hazardous combustion products:</b> Carbon dioxide, carbon monoxide.			

## 6. Accidental Release Measures

<b>Containment Techniques</b> NA
<b>Spill/Leak Clean-Up Procedures and Equipment</b> Sweep or scoop up and remove.
<b>Evacuation Procedures</b> NA
<b>Special Instructions</b> NA
<b>Reporting Requirements</b> NA

## 7. Handling and Storage

<b>Handling Practices and Warnings</b> <b>Personal precautionary measures:</b> Avoid contact with molten material. <b>Prevention of fire and explosion:</b> Keep from contact with oxidizing materials. Minimize dust generation and accumulation.
<b>Storage Practices and Warnings</b> Keep container closed.

## 8. Exposure Control/Personal Protection

<b>Ventilation</b> Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying etc.	<b>Other Engineering Controls</b> Exposure limits have not been established or are not applicable unless listed.	
<b>Routes of Entry:</b>	<b>Personal Protective Equipment (PPE) for Normal Use:</b>	<b>PPE for Emergencies:</b>
<b>Eye/Face</b>	It is a good industrial hygiene practice to minimize eye contact. Wear a safe shield when working with molten material.	NA
<b>Skin</b>	When material is heated, wear gloves to protect against thermal burns.	NA
<b>Inhalation</b>	If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Respirator type: dust, organic vapor.	NA



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<b>General Hygiene Considerations and Work Practices</b> Recommended decontamination facilities: Eye bath, washing facilities.
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment</b> NA
<b>Other Protective Measures and Equipment</b> NA

## 9. Physical and Chemical Characteristics

<b>Appearance</b> Physical form: Solid. Color: natural color.		<b>Odor</b> Virtually odorless.
<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> °C / °F NA <b>Melting Point</b> °C / °F NA <b>Freezing Point</b> °C / °F NA
<b>Specific Gravity or Density (H<sub>2</sub>O=1)</b> >1	<b>Solubility in Water</b> Negligible	<b>pH</b> N/A
<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> Softening point: >93°C. Thermal decomposition temperature: Thermal stability not tested. Low stability hazard expected at normal operating temperatures.		

## 10. Stability and Reactivity Data

<b>Incompatibility (Materials to Avoid)</b> Material reacts with strong oxidizing agents.	
<b>Hazardous Products Produced During Decomposition</b> Hazardous combustion products: Carbon dioxide, carbon monoxide.	
<b>Hazardous Polymerization?</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	<b>Conditions to Avoid</b> °C / °F NA
<b>Stability?</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	<b>Conditions to Avoid</b> °C / °F NA

## 11. Toxicological Information

<b>Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data</b> Toxicity data are not available unless listed below.
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## 12. Ecological Information

<b>Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements</b> This material has not been tested for environmental effects.
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## 13. Disposal Considerations

<b>Regulations</b> Discharge, treatment or disposal may be subject to national, state or local laws. Incinerate.
<b>Properties (Physical/Chemical) Affecting Disposal</b> NA



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## 14. Transport Information

<b>Regulated for shipping?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Proper Shipping Name</b> Oyster ESL	<b>Packing Group</b> NA
<b>Do changes in quantity, packaging, or shipment method change product classification?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Hazard Class</b> NA	<b>Identification Number</b> NA
<b>Other</b> <b>Marine Pollutant components:</b> None unless listed below. <b>ICAO STATUS:</b> Class not regulated <b>IMDG STATUS:</b> Class not regulated <b>ADR / RID</b> : Not regulated		

## 15. Regulatory Information

<b>Federal Regulations</b> <b>Carcinogenicity Classification (components present at <math>\geq 0.1</math> %):</b> None unless listed below. <b>TSCA (US Toxic substances control act):</b> All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing. <b>DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):</b> All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing. <b>EINECS (European Inventory of Existing Commercial Chemical Substances):</b> All components of this product are listed on EINECS. Any polymer intentionally present in this product has regulatory clearance under directives of the EU. <b>AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):</b> All components of this product are listed on AICS or otherwise comply with NICNAS. <b>MITI (Japanese Handbook of Existing and New Chemical Substances):</b> All components of this product are listed in the handbook or have been approved in Japan by new substance notification.
<b>International Regulations</b> NA
<b>Other</b> NA

## 16. Other Information

<b>Supplier Number:</b> 19 / 35 <b>Supplier Release:</b> May 19, 2004
N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.