



# MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

**Part Number(s):**  
59-100-01, 59-100-02,  
59-100-03

Product Name: **Neo-Clips**

Release Date: January 31, 2005

## 1. Product and Company Identification

<b>Trade Name &amp; Synonyms</b> Neo-Clip	<b>MSDS Code Number</b> Refer to part number
<b>Chemical Name</b> Polyoxymethylene; acetyl polymer	<b>Manufacture / Distributor</b> GAC International Inc.
<b>C.A.S. Number</b> 24969-26-4	<b>Address</b> 355 Knickerbocker Ave. Bohemia, NY USA 11716
<b>Grades or Minor Variant Identities</b> N/A	<b>Information Telephone Number</b> 1-631-419-1700
<b>Product Use (for Canada)</b> Clip for ceramic orthodontic bracket	<b>Emergency Telephone Number</b> 1-631-419-1700

## 2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
None			

## 3. Hazard Identification

<b>Emergency Overview</b> The dust can produce formaldehyde fumes.					
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	Dust can cause stinging tearing, redness, swelling.	Single	Mild	Acute eye irritation	Eye
Skin	N/A	-	-	-	-
Inhalation	Dust or overheating the material can cause irritation of nose throat or airway; irritating odor.	Single	Mild	Repeated and prolonged exposure at high concentrations of dust or vapor (from overheating) could cause central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, or headache).	Respiratory tract
Ingestion-	N/A	-	-	-	-
Other-	N/A	-	-	-	-
<b>Medical Conditions Aggravated by Exposure</b> Respiratory or eye conditions.					
<b>Carcinogenicity (IARC, NTP)</b> Formaldehyde gas is released when the polymer is overheated which is probably a human carcinogen.					
<b>Potential Environmental Effects</b> N/D					

## 4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Move individual away from exposure into fresh air. Flush eyes gently with water while holding eyelids apart.	N/A	If symptoms persist or there is any visual difficulty, seek medical attention.
Skin	Wash with water.	N/A	-
Inhalation	Move individual away from exposure into fresh air.	N/A	If symptoms persist, seek medical attention.
Ingestion	Do not induce vomiting. Drink milk or water.	N/A	-
Other	N/A	-	-
<b>Note to Physicians (Treatment, Testing, and Monitoring)</b> This product is essentially inert and nontoxic. If overheated, gases such as carbon monoxide and formaldehyde may be released. Formaldehyde respiratory irritant.			



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## 5. Fire and Explosion Data

<b>Flashpoint &amp; Method:</b> 325°C / 617°F for dust	<b>Flammable (Explosive) Limits in Air</b> LEL: N/A UEL: N/A	<b>Autoignition Temperature</b> N/A	<b>Other</b> Treat as a Class B fire. Protect from fumes.
<b>Flame Propagation or Burning Rate (for solids)</b> N/A	<b>Properties Contributing to Fire Intensity</b> N/A	<b>Flammability Classification</b> Health-1, Flammability-1, Reactivity-0	
<b>Extinguishing Media</b> Water spray, foam, carbon dioxide or dry chemical.		<b>Extinguishing Media to Avoid</b> None	
<b>Protection and Procedures for Firefighters</b> Usual. Stay downwind from fumes of burning material.			
<b>Unusual Fire and Explosion Hazards</b> May form carbon dioxide, carbon monoxide, or formaldehyde.			

## 6. Accidental Release Measures

<b>Containment Techniques</b> Discard in trash.
<b>Spill/Leak Clean-Up Procedures and Equipment</b> Discard in trash; do not put down the drain.
<b>Evacuation Procedures</b> N/A
<b>Special Instructions</b> N/A
<b>Reporting Requirements</b> N/A

## 7. Handling and Storage

<b>Handling Practices and Warnings</b> Trained personnel use this product exclusively for dental purposes. Do not grind or polish.
<b>Storage Practices and Warnings</b> Store in ventilated, dry, cool (<22°C / 72°F) place.

## 8. Exposure Control/Personal Protection

<b>Ventilation</b> Do not grind, polish or overheat this material.	<b>Other Engineering Controls</b> N/A	
<b>Routes of Entry:</b>	<b>Personal Protective Equipment (PPE) for Normal Use:</b>	<b>PPE for Emergencies:</b>
<b>Eye/Face</b>	N/A	-
<b>Skin</b>	N/A	-
<b>Inhalation</b>	N/A	-
<b>General Hygiene Considerations and Work Practices</b> Wear gloves as per universal precautions in dentistry. Do not grind or polish.		
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment</b> N/A		
<b>Other Protective Measures and Equipment</b> N/A		



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## 9. Physical and Chemical Characteristics

<b>Appearance</b> Solid white object		<b>Odor</b> Irritating odor if overheated
<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> <b>Melting Point</b> <u>165°C / 329 °F</u> <b>Freezing Point</b> <u>165°C / 329 °F</u>
<b>Specific Gravity or Density (H<sub>2</sub>O=1)</b> 1.41	<b>Solubility in Water</b> Insoluble	<b>pH</b> N/D
<b>Vapor Pressure (mm Hg @ 20°C)</b> <0.001	<b>Vapor Density (AIR= 1)</b> >2	<b>Evaporation Rate (Butyl Acetate = 1)</b> N/A
<b>Other</b> N/A		

## 10. Stability and Reactivity Data

<b>Incompatibility (Materials to Avoid)</b> Strong acids, bases & oxidizers.	
<b>Hazardous Products Produced During Decomposition</b> Carbon monoxide and formaldehyde.	
<b>Hazardous Polymerization?</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	<b>Conditions to Avoid</b> Heating >193°C / 379°F; do not autoclave
<b>Stability?</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	<b>Conditions to Avoid</b> Do not autoclave.

## 11. Toxicological Information

<b>Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data</b> N/D
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## 12. Ecological Information

<b>Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements</b> Low solubility in water; do not discharge to sewer system.
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## 13. Disposal Considerations

<b>Regulations</b> Dispose in trash according to federal state & local regulations.
<b>Properties (Physical/Chemical) Affecting Disposal</b> None known

## 14. Transport Information

<b>Regulated for shipping?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Proper Shipping Name</b> NeoClip	<b>Packing Group</b> N/A
<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> Non-hazardous	<b>Identification Number</b> N/A
<b>Other</b> N/A		



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## 15. Regulatory Information

**Federal Regulations**

In compliance with TSCA inventory requirements for commercial purposes.

**International Regulations**

N/D

**Other**

Substance may product formaldehyde if overheated, ground or polished. Do not use for implantation.

## 16. Other Information

**Supplier Number:** 031/59

**Supplier Release:** 3-07-2001

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



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