



# MATERIAL SAFETY DATA SHEET

## GS-561

READ THIS MATERIAL SAFETY DATA SHEET BEFORE USING THIS PRODUCT. ASK YOUR SUPERVISOR FOR ASSISTANCE IF YOU DO NOT UNDERSTAND ANY PART OF IT.

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### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** GS 561 Epoxy Base – Blue  
**Chemical Name:** N/A  
**Chemical Family:** Bisphenol A Diglycidyl Ether Polymer  
**Product Code:** GS 561  
**Synonyms:** Epoxy Resin

**NIXUS International Corporation EMERGENCY TELEPHONE: 1-850-267-1237**  
**P.O. Box 613588**  
**Watersound, FL 32461**  
**U.S.A.**

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### 2. HAZARDOUS INGREDIENTS

Material	CAS Number	Contents % w/w	Hazard Data
Epoxy Resin Liquid Polymer	25068 – 38 -6	50 – 80%	OSHA PEL: Not Established ACGIH TLV: Not Established
p-tertbutylphenyl glycidyl ether	31101 – 60 - 8	5 - 10% OSHA	PEL: Not Established

**DOES NOT CONTAIN CARCINOGENS**

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### 3. PHYSICAL DATA

<b>Appearance:</b> Blue, sl. Gelled viscous liquid	<b>Vapor Pressure:</b> N/A	<b>Vapor Density:</b> N/A
<b>Solubility in Water:</b> None	<b>Odor:</b> Sweet Characteristic of Epoxy	
<b>Specific Gravity:</b> 1.15	<b>Density at 20OC:</b> 9.6 lbs/gallon	<b>Viscosity:</b> Sl. Gel
<b>Boiling Point:</b> N/A	<b>Freezing Point:</b> N/A	<b>% Volatiles by Volume:</b> Approx. 1%

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## 4. FIRE AND EXPLOSION DATA

**Flash Point:** >200OF TCC

**Autoignition Temp:** N/A

**Flammable Limits in Air:** N/A

**LEL:** N/A

**UEL:** N/A

**Extinguishing Media:** Water, Spray, Foam, Dry Chemical, Carbon Dioxide

**Unusual Fire or Explosion Hazards:** Decomposition products may be toxic.

**Special Firefighting Procedures:** Wear self-contained breathing apparatus.

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## 5. REACTIVITY DATA

**Stability:** Stable

**Hazardous Polymerization:** Will Not Occur

**Incompatible Materials:** Large masses of epoxy curing agents.

**Conditions to Avoid:** Exposure to large masses of epoxy curing agents, especially when hot.

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, Aldehydes, Unspecified Others

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## 6. HEALTH HAZARD DATA

<b>Health Hazard Data:</b>	Acute Oral LD50	Approx. 5.0 g/kg (rat)
	Acute Inhalation	N/A
	Acute Dermal LD50	Approx. 5.0 g/kg (rabbit)
	Draize Eye Irritant	Slight Irritant
<b>Routes of Exposure:</b>	Skin	Slight Irritant and Moderate Sensitizer
	Eye	Slightly Irritating
	Ingestion	Considered Slightly Toxic
<b>Overexposure Effects:</b>	Acute	Skin, Eye Irritation
	Chronic	May Aggravate Existing Skin or Eye Conditions

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## 7. FIRST AID RECOMMENDATIONS

**Eyes:** Immediately flush with water for at least 15 minutes. Call a physician.

**Skin:** Promptly wash with mild soap and water to remove – avoid the use of solvents.

**Ingestion:** If conscious, give large volumes of water. Never give anything by mouth to an unconscious person. Get medical attention.

**Inhalation:** Immediately move to fresh air. If breathing is difficult, give oxygen.

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## 8. SPILL PROCEDURES & WASTE DISPOSAL

Avoid personal contact. Take up with absorbent materials and place in sealable containers. Dispose of in accordance with Federal, State and Local regulations.

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## 9. PERSONAL PROTECTION

**Ventilation Requirements:** Good general mechanical ventilation.

**Personal Protective Equipment:** Wear impervious gloves.

**Respiratory Protection:** Organic vapor cartridge respirator, if needed.

**Eyes:** Chemical splash goggles recommended.

**Skin:** Appropriate equipment or clothing to prevent skin contact.

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## 10. SPECIAL PRECAUTIONS & STORAGE

**Precautionary Statements:** WARNING – CAUSES IRRITATION – MAY CAUSE ALLERGIC SKIN REACTION. Avoid contact with eyes, skin or clothing. Use with good ventilation. Wash after handling. Store in a cool, dry area in closed containers.

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## 11. TRANSPORTATION INFORMATION

IATA, IMO AND DOT: Resin Compound – “Non-Hazardous” – “Non-Regulated”



NIXUS International Corporation  
P.O. Box 613588  
WaterSound, FL 32461

Tel: 850.267.1237 // Fax: 850.267.1604  
e-mail: [info@NIXUSstrongback.com](mailto:info@NIXUSstrongback.com)  
[www.NIXUSstrongback.com](http://www.NIXUSstrongback.com)



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### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** GS 561 Curing Agent – Yellow  
**Chemical Name:** N/A  
**CAS Number:** N/A  
**Chemical Family:** Epoxy Curing Component  
**Product Code:** GS 561

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### 2. HAZARDOUS INGREDIENTS

(HMIS: Health – 2, Flammability – 1, Reactivity – 0)  
OSHA (29CFR1910.1200): Irritant, Sensitizer

Material	CAS Number	Contents % w/w	Hazard Data
Benzyl Alcohol	100 – 51 - 6	12 – 24% OSHA	PEL: Not Established
Remaining Resins are Trade Secret		5 - 10%	

**Formulated Product:** Not IATA, DOT or IMO Regulated.

**DOES NOT CONTAIN CARCINOGENS**

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### 3. PHYSICAL DATA

**Appearance:** Yellow Paste  
**Solubility in Water:** Negligible  
**Specific Gravity:** 1.69  
**Boiling Point:** N/A

**Vapor Pressure:** N/A  
**Odor:** Ammonia  
**Density at 20OC:** 14.11 lbs/gallon  
**Freezing Point:** N/A

**Vapor Density:** N/A  
**Viscosity:** Heavy Paste  
**% Volatiles by Volume:** Approx. 1%

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## 4. FIRE AND EXPLOSION DATA

**Flash Point:** >200OF TCC

**Autoignition Temp:** N/A

**Flammable Limits in Air, % v/v**

**LEL:** N/A **UEL:** N/A

**Extinguishing Media:** Water, Spray, Foam, Dry Chemical

**Fire or Explosion Hazards:** Ignition will give rise to a Class B fire. Generation of toxic or irritating products.

**Special Firefighting Procedures:** Wear full protective equipment including selfcontained breathing apparatus, butyl rubber gloves and boots.

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## 5. REACTIVITY DATA

**Stability:** Stable

**Hazardous Polymerization:** Will Not Occur

**Incompatible Materials:** Acids, (e.g. Sulfuric, Phosphoric, Acetic, Citric, etc.). Oxidizing and reducing agents (e.g. Perchlorates, Nitrates, Hydrides and Sulfites, etc.) Unsupervised mixes with large volumes of epoxy based materials such as GS 561.

Volumes of one gallon are safe; however, expect a significant exotherm within 30 – 40 minutes at 70OF.

**CAUTION:** n-Nitrosamines, many of which are known to be potent carcinogens may be formed when the product comes into contact with nitrous acid, atmospheres with high nitrous oxide concentrations, nitrites.

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, Nitrogen Oxides, Aldehydes, Nitrosamines, Amines, Ammonia, Organic Acid Vapors and Unspecified Others.

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## 6. HEALTH HAZARD DATA

**Inhalation:** NOTICE – DO NOT INHALE PRODUCT. May cause irritation to upper respiratory tract upon prolonged or repeated inhalation. NOTE: Because of low volatility of product and pasty viscosity, it is extremely unlikely that excessive exposure to vapors will be experienced at normal temperatures under normal circumstances.

**Eye and Skin Contact:** Causes moderate skin irritation or burns. May cause permanent visual impairment. Wear protective clothing and goggles, if contact is otherwise possible.

**CAUTION:** Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product; exercise caution in handling. Remove from skin using liquid soap or detergent – always avoid using solvents to remove skin contamination.

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## 7. FIRST AID RECOMMENDATIONS

**Eye Contact:** Immediately flush with water holding lids apart for at least 15 minutes. Washing within one minute is essential to achieve maximum effectiveness.

**Skin Contact:** Remove from skin using soap and water. Avoid the using solvents to remove any skin contamination. Remove contaminated shoes and clothing. DO NOT apply greases or ointments. Victims of a major skin contact should remain under medical observation for at least 24 hours due to possible delayed effects.

**Ingestion:** Administer 3 – 4 glasses of milk or water. DO NOT induce vomiting. Obtain medical attention and hospital treatment immediately.

**Inhalation:** In normal use, inhalation is extremely unlikely. If breathing has stopped or is labored, give mouth to mouth assistance. Prevent aspiration of vomit. Move to fresh air and call a physician

**Note to Physician:** This product is highly injurious to all tissues, similar to that of ammonia. Chemical pneumonitis, pulmonary edema, laryngeal edema and delayed scarring of the airway or other affected tissue may occur following exposure. Clinical management is based on supportive treatment similar to that used for thermal burns.

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## 8. SPILL PROCEDURES & WASTE DISPOSAL

Scrape or wipe up spilled material. Place in container for recover or disposal. Avoid contact with skin and eyes. Wear recommended protective clothing. Keep spills out of sewers and open bodies of water. Observe all Federal, State and Local laws regarding Health and the Environment.

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## 9. PERSONAL PROTECTION

**Ventilation Requirements:** Mechanical local exhaust at point of contaminant release, if conditions warrant.

**Personal Protective Equipment:** Wear impervious gloves.

**Respiratory Protection:** It is extremely unlikely that harmful concentrations of volatile materials will be released during normal applications by spreaders, trowels or similar tool in open areas. Wear organic vapor cartridge respirator or fresh air hood, if working for extended periods in enclosed spaces with minimal ventilation.

**Eyes:** Chemical resistant goggles, if eye contact possible.

**Skin:** Impervious gloves, long sleeved shirts, coveralls, as required to prevent skin contact. Discard contaminated gloves, footwear, etc.

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## 10. SPECIAL PRECAUTIONS & STORAGE

**Precautionary Statements:** Repeated and/or prolonged contact with the skin may cause primary skin irritation and dermatitis. Adverse respiratory effects, such as coughing, tightness of the chest or shortness of breath may also occur.

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