



MSDS

Material Safety Data Sheet

DATE PREPARED: 03/04/13

MANUFACTURER'S NAME: GARON PRODUCTS INC., PO Box 1924, Wall, NJ 07719-1924, 800-631-5380 FAX: 732-223-2002

EMERGENCY PHONE NO: CHEMTREC 800-424-9300

SECTION I – IDENTIFICATION

PART A

TRADE NAME: TIGERBOND 221 ULTRA CLEAR

PRODUCT CLASS:

PRODUCT CODE: 15240CLR

DESCRIPTION: 100% SOLIDS, MEDIUM BUILD EPOXY COATING

HAZARD RATING		
0 = Least	Health	2
1 = Slight	Flammability	1
2 = Moderate	Reactivity	0
3 = High	Personal Protection	G
4 = Extreme		

Hazardous Components / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	Wt %
Modified Diglycidyl Ether of Bisphenol A CAS # 25068-38-6	None	None	None	
Alkyl Glycidyl Ether CAS # 68609-97-2	None	None	None	
Fluoroaliphatic Polymeric Esters (Less Than 3%) CAS# Unknown	None	None	None	
1,2-Propanediol CAS# 57-55-6	100 Ppm	100 Ppm	None	
Proprietary Non-hazardous Additives CAS# NA	None	None	None	
Amorphous Silica CAS# 7631-86-9	80 mg/m ³	10 mg/m ³	None	
Nonyl Phenol CAS# 25154-52-3	None	None	None	
Benzyl Alcohol CAS# 100-51-6	None	None	None	

Section III - Physical/Chemical Characteristics

Boiling Point:	200-560°F	Specific Gravity (H ₂ O=1):	1.1
Vapor Pressure (Mm Hg):		Melting Point:	
Vapor Density (Air=1):	N/A	Evaporation Rate (Butyl Acetate=1):	N/A
Solubility In Water:	Negligible		
Appearance & Odor:	Low Viscosity Liquid In Amber Clear		

Section IV - Fire And Explosion Hazard Data

Flash Point:	200+°F		Method Used:	Seta Flash
Flammable Limits In Air By Volume:	Upper:	Not Available	Lower:	Not Available
Extinguishing Media:	Foam, Alcohol Foam, Co ₂ , Dry Chemical, Water Fog			
Special Firefighting Procedures:	Do not enter confined fire area with out full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire exposed containers with water.			
Unusual Fire And Explosion Hazards:	No Unusual Fire Hazards Known			

Section V - Reactivity Data

Stability	Stable
Conditions To Avoid	Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, static discharges etc.
Incompatibility (Materials To Avoid)	Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids.
Hazardous Decomposition Or By-Products	CO ₂ , Aldehydes Acids. Reaction with some curing agents can generate large amounts of heat.
Hazardous Polymerization	Will Not Occur.



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Section VI - Health Hazard Data A. Health Risks And Symptoms Of Exposure	
Inhalation	No guide for control known, however, exposure to heated vapors can cause irritation to the nose, throat or mucous membranes.
Skin Contact	May cause irritation or allergic skin response
Eye Contact	May cause irritation, but no corneal injury is likely.
Ingestion	This material has a probable low acute oral toxicity.

B. Health Hazards (Acute & Chronic): Epoxy resins can cause sensitization by exposure through contact or high concentrations of vapor. Eyes: injury is unlikely but stain for evidence of corneal injury.			
Carcinogenicity	OSHA Regulated: No	NTP: No	IARC Monographs: No
No listed ingredients of this product are regulated as carcinogens. See health hazards acute and chronic for additional information.			
Medical Conditions Generally Aggravated By Exposure:		Respiratory Conditions Or Other Allergic Response.	

C. Emergency & First Aid Procedures	
Eyes	Flush eyes with water for at least fifteen minutes and consult a physician.
Skin	Skin contact will normally cause no more than irritation but wash affected area with soap and water and remove contaminated clothing promptly.
Inhalation	Remove victim to fresh air and administer oxygen if necessary.
Ingestion	Low in toxicity, induce vomiting only if large amounts of material are ingested, otherwise do not induce vomiting and consult a physician.

Section VII - Safe Handling & Use Information	
Steps To Be Taken In Case Material Is Released Or Spilled	Wear respirator and protective clothing. Shut off the source at the leak. Remove excess with vacuum truck and take up the remainder with an absorbent such as clay and place in disposal containers. Flush area with water to remove residue.
Waste Disposal Method	Dispose of the material in a waste disposal site in accordance with local, state, and federal law.
Precautions To Be Taken In Handling And Storing	Store in cool dry place. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain the hazards of all the components, therefore, read the MSDS of all the components prior to using material. Properly label all containers.
Other Precautions	Avoid all skin contact. Avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles cannot be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse thereof.

Section VIII - Control Measures/Protection Information	
Respiratory Protection	Use a NIOSH approved respirator as required to prevent over exposure to vapor in accordance with 29 CFR 1910.134.
Ventilation	General exhaust is usually sufficient to control vapors and exposure hazards.
Protective Gloves	Impervious gloves, neoprene or rubber.
Eye Protection	Splash proof goggles or safety glasses with side shields.
Other Protective Clothing Or Equipment	Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.
Work / Hygienic Practices	Observe general good hygienic practices.



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SECTION I – IDENTIFICATION

PART B

TRADE NAME: TIGERBOND 221 ULTRA CLEAR

PRODUCT CLASS:

PRODUCT CODE: 15240CLR

DESCRIPTION: 100% SOLIDS, MEDIUM BUILD EPOXY COATING

HAZARD RATING		
0 = Least	Health	2
1 = Slight	Flammability	1
2 = Moderate	Reactivity	0
3 = High	Personal Protection	G
4 = Extreme		

Hazardous Components / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	Wt %
Benzyl Alcohol CAS# 100-51-6	None	None	None	
3-Aminomethyl-3,5,5-Trimethyl Cyclohexane CAS# 2855-13-2	None	None	None	
2-Hydroxybenzoic Acid CAS# 69-72-7	None	None	None	

*No toxic chemical(s) subject to the reporting requirements of section 313 of title III and of 40 CFR 372. *

Section III - Physical/Chemical Characteristics

Boiling Point:	401°F	Specific Gravity (H ₂ O=1):	1.0
Vapor Pressure (Mm Hg):		Melting Point:	
Vapor Density (Air=1):	N/A	Evaporation Rate (Butyl Acetate=1):	N/A
Solubility In Water:	Negligible		
Appearance & Odor:	Amber clear liquid with amine odor		

Section IV - Fire And Explosion Hazard Data

Flash Point:	200+°F		Method Used:	Seta Flash
Flammable Limits In Air By Volume:	Upper:	N/A	Lower:	N/A
Extinguishing Media:	Foam, Alcohol Foam, CO ₂ , Water Fog			
Special Firefighting Procedures:	Toxic fumes will be evolved when this material is involved in a fire. A self-contained breathing apparatus should be available for fire fighters. Cool all fire-exposed containers with water.			
Unusual Fire And Explosion Hazards:	None known.			

Section V - Reactivity Data

Stability	Stable
Conditions To Avoid	Avoid contact with open flames and all sources of ignitions and sparks.
Incompatibility (Materials To Avoid)	Avoid contact with strong oxidizing agents, mineral acids and epoxy resins in uncontrolled amounts.
Hazardous Decomposition Or By-Products	CO ₂ , CO, NOX.
Hazardous Polymerization	Will not occur.



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Section VI - Health Hazard Data A. Health Risks And Symptoms Of Exposure	
Inhalation	High concentrations of vapor can cause irritation to the respiratory tract, nausea and dizziness.
Skin Contact	Will cause burns to the skin
Eye Contact	Will cause burns to the eyes. High vapor concentrations can cause severe irritation to the eyes.
Ingestion	Liquid can cause severe damage to mucous membranes if swallowed.

B. Health Hazards (Acute & Chronic): Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.			
Carcinogenicity	OSHA Regulated: No	NTP: No	IARC MONOGRAPHS: No
No listed ingredients of this product are regulated as carcinogens. See health hazards acute and chronic for additional information.			
Medical Conditions Generally Aggravated By Exposure:		Respiratory conditions or other allergic response.	

C. Emergency & First Aid Procedures	
Eyes	Immediately flush eyes with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance.
Skin	Flush skin with water for at least 15 minutes and remove all contaminated clothing immediately. Get medical attention if reddening or swelling occurs.
Inhalation	Remove to fresh air if effects persist and administer oxygen if necessary.
Ingestion	Do not induce vomiting. Dilute by giving water or milk to drink if victim is conscious. Get medical attention immediately.

Section VII - Safe Handling & Use Information	
Steps To Be Taken In Case Material Is Released Or Spilled	Avoid contact with material. Wear the appropriate safety equipment. Stop spill at source, dyke area to prevent spreading. Pump liquid to salvage tank. Take up the remainder with an absorbent such as clay and place in disposal containers.
Waste Disposal Method	Dispose of material in a waste disposal site in accordance with local, state and federal laws.
Precautions To Be Taken In Handling And Storing	Avoid all skin contact. Avoid breathing vapors. Reseal All Partially Used Containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Observe good general hygiene and safe working practices.
Other Precautions	Mixed materials contain the hazards of all the components, therefore, read the MSDS of all the components to become familiar with all hazards prior to using this product.

Section VIII - Control Measures/Protection Information	
Respiratory Protection	Use a NIOSH approved respirator as required to prevent over exposure to vapors in accordance with 29 CFR 1910.134.
Ventilation	Avoid breathing vapors. Ventilation must be sufficient to control vapors. If ventilation is not sufficient to control vapors, a NIOSH approved respirator must be used.
Protective Gloves	Impervious gloves, neoprene or rubber.
Eye Protection	Splash proof goggles or safety glasses with side shields.
Other Protective Clothing Or Equipment	Wear body covering clothing and other coverings as necessary such as apron and appropriate footwear to avoid contact with material.
Work / Hygienic Practices	Observe general good hygienic practices.

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