



MSDS

Material Safety Data Sheet

DATE PREPARED: 1/31/13

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: GARON SEAL HCR

PRODUCT CLASS:

PRODUCT CODE: 70719, 70720

DESCRIPTION: PREMIUM JOINT AND CRACK REPAIR EPOXY

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

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TVL	OSHA STEL	WT%
Bisphenol A epoxy resin CAS# 25068-38-6	Not Established	Not Established		
Aliphatic Glycidyl Ether Diluent CAS# 68609-97-2	Not Established	Not Established		

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	>200°C (>392°F)	Specific Gravity (H ₂ O=1):	NA
Vapor Pressure:	<0.1kPa (<0.75 mm Hg) [20°C]	Density:	1.1 g/cm ³ [20°C(68°F)]
Vapor Density (Air=1):	NA	Evaporation Rate:	NA
Solubility in Water:	Practically Insoluble		
Appearance and Odor:	Colorless viscous liquid with slight odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point:	485°F		Method Used:	Closed cup
Flammable Limits in Air by Volume:	UPPER:	NA	LOWER:	NA
Extinguishing Media:	Use water fog, alcohol foam, dry chemical or carbon dioxide.			
Special Firefighting Procedures:	Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus..			
Unusual Fire and Explosion Hazards:	Clear fire area of all non-emergency personnel. Cool fire exposed containers with water. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. Material will not burn unless preheated. Combustion products may be toxic.			

SECTION V - REACTIVITY DATA

Stability	Stable. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	Avoid high temperatures. Excess heating over long periods of time degrades the resin. Avoid Heat, flames and sparks. Uncontrolled reaction with amines.
Incompatibility (Materials to avoid)	Can react vigorously with strong oxidizing agents, strong lewis or mineral acid, and strong mineral and organic bases, especially primary and secondary aliphatic amines. Reaction with some curing agents may produce considerable heat and possible violent decomposition.
Hazardous Decomposition or By-Products	Fire – Carbon Monoxide, Carbon Dioxide, Nitrogen Oxide, Aldehydes
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.

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SECTION VI - HEALTH HAZARD DATA A. Health risks and symptoms of exposure	
Inhalation	No known significant effects or critical hazards.
Skin Contact	Irritating to skin. May cause sensitization by skin contact.
Eye Contact	Irritating to eyes.
Ingestion	No known significant effects or critical hazards.

B. Health Hazards (Acute & Chronic): Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Warning! Causes eye and skin irritation. May cause allergic skin reaction. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Wash thoroughly after handling.			
Medical Conditions Generally Aggravated by Exposure	Pre-existing skin disorders may be aggravated by over-exposure to this product.		
Carcinogenicity	OSHA: NO	NTP: NO	IARC: NO
No listed ingredients of this product are regulated as carcinogens. See health hazards acute and chronic for additional information concerning this product.			

C. Emergency & First Aid Procedures; Note to Physician: No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested. Persons with lung disorders or who are sensitized should not use this product.	
Eyes	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION VII - SAFE HANDLING & USE INFORMATION	
Steps to be taken in case material is released or spilled	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Waste Disposal Method	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Personal Precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Precautions to be taken in Handling and Storing	Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated contact with skin, eyes and clothing. Wash thoroughly after handling. Heating this resin above 300°F in the presence of air may cause slow oxidative decomposition, above 500°F, polymerization may occur. Some curing agents, e.g., aliphatic polyamines, can produce exothermic reactions, which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from the thermal and chemical decompositions vary widely in composition and toxicity. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame. The resin may be handled, shipped and stored at elevated temperature in bulk. The recommended pumping temperature is 180°F. WARNING. Slightly toxic and may be harmful if absorbed through the skin. Causes skin irritation. May cause skin sensitization. Keep liquid and vapor away from heat, sparks and flame. Extinguish pilot lights, cigarettes and turn off all other sources of ignition prior to use and until all vapors are gone. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse. Do not pressurize drum containers to empty them. To prevent thermal burns avoid contact with hot product. Containers, even those that have been emptied, can contain hazardous product residues. Store in a cool, dry place with adequate ventilation. Keep containers closed when not in use. Keep away from open flames and high temperatures.

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SECTION VIII - CONTROL MEASURES/PROTECTION INFORMATION	
Recommended Monitoring Procedures	Consult local authorities for acceptable exposure limits. If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Engineering Measures	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Respiratory Protection	Use a NIOSH-approved respirator as required preventing overexposure. In accord with 29 CFR 1910.134, the types of respirator(s) to be considered include: Supplied-Air Respirator, Air-Purifying Respirator for Organic Vapors.
Ventilation	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Protective Gloves	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): Polyvinyl Chloride (PVC), neoprene, nitrile rubber, Ethyl Vinyl Alcohol Laminate (EVAL), butyl rubber
Eye Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Other Protective Clothing or Equipment	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Work / Hygienic Practices	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



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SECTION I - IDENTIFICATION

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PRODUCT CLASS:

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DESCRIPTION: PREMIUM JOINT AND CRACK REPAIR EPOXY

HAZARD RATING		
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HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	WT %
Benzyl Alcohol CAS# 100-51-6	Not Established	Not Established	Not Established	30-60
Aliphatic Diamine CAS# Confidential	Not Established	Not Established	Not Established	7-13
Cyclohexanemethanamine,5-amino-1,3,3-trimethyl-Isophoronediamine CAS# 2855-13-2	Not Established	Not Established	Not Established	15-40

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point or Range:	.392°F	Specific Gravity (H ₂ O=1):	1.01
Vapor Pressure (mm Hg):	.05mmHg @ 20°C (68°F)	Melting Point:	Not Determined
Vapor Density (Air=1):	Not Determined	Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water:	Insoluble		
Appearance and Odor:	Clear to Pale Yellow liquid with amine odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point:	>200°F		Method Used:	Closed cup
Flammable Limits in Air by Volume:	UPPER:	NA	LOWER:	NA
Extinguishing Media:	Carbon dioxide, foam, dry chemical, water spray			
Fire Firefighting Equipment:	Use self-contained breathing apparatus			
Fire and Explosion Hazards:	Decomposition and combustion products may be toxic.			

SECTION V - REACTIVITY DATA

Stability	Stable under normal use conditions.
Conditions to Avoid	High Temperatures
Incompatibility (Materials to Avoid)	Can react vigorously with strong oxidizing agents, strong lewis or mineral acid, and strong mineral and organic bases, especially primary and secondary aliphatic amines.
Hazardous Decomposition or By-Products	Carbon monoxide, carbon dioxide, nitrogen oxides and compounds.
Hazardous Polymerization	Hazardous polymerization will not occur.



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SECTION VI - HEALTH HAZARD DATA A. Health risks and symptoms of exposure	
Inhalation	Remove to fresh air. Seek immediate medical attention
Skin Contact	Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek immediate medical attention.
Eye Contact	Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

B. Health Hazards: ACUTE EXPOSURE: Corrosive. Causes skin and eye burns. CHRONIC – Overexposure may have effects on nervous system. Corrosive-causes skin and eye burns. Causes severe irritation if inhaled and can cause allergic skin reaction. May be harmful if swallowed.	
Medical Conditions Generally Aggravated by Exposure:	Asthma, chronic respiratory disease, skin and eye conditions
Additional Information: Promptly remove wet contaminated non-impervious clothing, wash before reuse. Destroy contaminated leather shoes.	

C. Emergency & First Aid Procedures	
Eyes	Flush eye with water holding lids open for 15 minutes or more. Call physician for advice, if redness, burning, blurred vision or swelling persists.
Skin	Remove contaminated clothing. Promptly wash with soap and water. Do not use solvent. Flush with large amounts of water for at least 15 minutes. If persistent irritation occurs, obtain medical attention.
Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
Ingestion	Get medical attention immediately. Never give liquids to an unconscious person or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Note: Persons with lung disorders or who are sensitized should not use this product.

SECTION VII - SAFE HANDLING & USE INFORMATION	
Personal Precautions	Corrosive – causes skin and eye burns. Causes severe irritation if inhaled and can cause allergic skin reaction. May be harmful if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling. Notice! Overexposure may have effects on nervous system..
Steps to be taken in Case Material is Released or Spilled	Avoid all personal contact. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Wash area with detergent and water to remove trace residue.
Waste Disposal Method	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Storage Information	Store in dry area in closed containers.

SECTION VIII – EXPOSURE CONTROL / PERSONAL PROTECTION INFORMATION	
Respiratory Protection	Use a NIOSH-approved respirator suitable for organic vapors, if required, e.g. In spray applications.
Engineering Controls	Local Exhaust – If needed. Mechanical: Adequate exhaust ventilation must exhaust away from the applicator. Adequate ventilation to control airborne concentrations.
Skin Protection	Wear Impervious gloves
Eye Protection	Wear splash proof chemical goggles.
Personal Protection	Wear appropriate protective equipment to avoid personal contact and exposure.
Work / Hygienic Practices	Observe general good hygienic practices. Enforce careful handling to prevent splashing. Wash thoroughly after use.

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