N/A

SECTION 1 : Identification of the substance/preparation and of the company / undertaking

(a) GHS product identifier

(b) Other means of identification

Vitex Refractory Model Hardener

#### (e) Emergency phone number CHEMTREC 1-800-424-9300 CCN9105

**Date Prepared:** 

(c) Recommended use of the chemical and restrictions on use For professional dental applications.

### (d) Supplier's details

Garreco, LLC. 430 Hiram Road Heber Springs, AR 72543 Phone: 1-800-334-1443 SECTION 2: Hazards identification

# (a) GHS classification of the substance/mixture

# Substance Name

#### 1. Acetone

- 2. Alcohol Anhydrous 95
- 3. Gum Resin

#### (b) Label Elements

# Hazard statements

Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. May cause an allergic skin reaction. Toxic if swallowed. Causes skin irritation. Toxic if inhaled. May cause respiratory irritation. Toxic in contact with skin. Causes damage to organs. Harmful to aquatic life.

# Precautionary statements

Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Use explosion-proof equipment. Ground and bond container and receiving equipment.

Use non-sparking tools. Take action to prevent static discharges.

Wear protective gloves/clothing/eye/face protection. Contaminated clothing should not leave the workplace.

Wash thoroughly after handling.

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center if you feel unwell.

IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical attention.

# Storage Disposal

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard Symbol(s)		
Exclamation Mark		
Flame		

# Signal Word(s) Danger

## (c) Other hazards which do not result in classification

	NA
SECTION 3: Composition/information on ingredients	

(a) Chemical(s) Identity:	Mixture:		
(b) Common Name:	(c) CAS No.	Concentration (Percentage)	
Acetone	67-64-1	≤ 55%	
Ethanol	64-17-5	≤ 22%	
Gum Rosin	8050-09-7	≤ 22%	

# SECTION 4: First-aid measures

# (a) Description of first aid measures:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash before reuse. Immediately flush with plenty of water for at least 15 minutes.

IF SWALLOWED: Get medical attention immediately. Rinse mouth. Do NOT induce vomiting. Never give liquid to an unconscious person.

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Immediately call a poison center.

#### (b) Most important symptoms and effects, both acute and delayed:

Nausea, difficulty breathing, skin irritation and eye damage.

# (c) Indication of any immediate medical attention and special treatment needed:

Nausea, difficulty breathing, skin irritation and eye damage.

# SECTION 5: Fire-fighting measures

# (a) Suitable extinguishing media:

Do not use direct water spray; will scatter and spread fire. Use Dry chemical, Carbon Dioxide or Foam.

## (b) Special hazards arising from the chemical or mixture:

Flammable liquid. Forms explosive mixtures with air. Vapors are heavier than air and may travel to a source of ignition and flash back. Combustion produces toxic gases including carbon monoxide and oxides of sulfur.

## (c) Special protective equipment and precautions for fire-fighters:

Move container from fire area if it can be done without risk. Cool containers with water. Wear NIOSH approved positivepressure self-contained breathing apparatus operated in pressure demand mode. Firefighters must use standard protective equipment. Vapors are heavier than air and may spread near ground to sources of ignition.

SECTION 6: Accidental release measures

# (a) Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective gloves, eye protection, and respiratory protection. Keep unauthorized personnel away.

(b) Environmental precautions:

Do not release into the environment. Keep out of water supplies and sewers.

### (c) Methods and material for containment and cleaning up:

All equipment used must be grounded. Eliminate sources of ignition. Absorb spillage with non-combustible, absorbent material. Dike for later disposal.

# SECTION 7: Handling and storage

(a) Precautions for safe handling:

Keep away from oxidizers, heat and flames. Use only in well-ventilated areas. Avoid breathing gas/mist/vapors. Store away from incompatible materials. Avoid free fall of liquid. Ground containers when transferring.

### (b) Conditions for safe storage, including any incompatibilities:

Flammable liquid storage. Keep container tightly closed and upright in a cool, well-ventilated place.

SECTION 8: Exposure controls/Personal protection

(a) Control parameters:			
	ACGIH	0	SHA
Chemical	TWA	PEL T\	NA
Acetone	500 ppm	1000 ppm	750 ppm
Alcohol Anhydrous 95	1000 ppm		1000 ppm
Gum Resin	3 mg/m <sup>3</sup>		NA

# (b) Appropriate Engineering Controls:

Use explosion-proof ventilation equipment to stay below exposure limits. Provide eyewash station and safety shower.

# (c) Individual protection measures:

Follow good personal hygiene measures. Wear safety glasses/face shield in case of splash risk. Wear chemical resistant gloves. Use an approved respirator if there is risk of exposure to fumes exceeding the exposure limits.

SECTION 9: Physical and chemical propertie	ls
(a) Appearance:	Yellow-brown liquid
(b) Odor:	Ketone
(c) Odor threshold:	ND
(d) nH:	ND
(a) Molting point / froozing point:	-95°C
(e) weiting point / neezing point.	-55 0
(f) Initial boiling point and boiling range:	50.5 U
(g) Flash point: ND	-20°0
(h) Evaporation rate (BuAc=1):	~1.5
(i) Flammability:	High Flammability
(j) Upper/lower flammability or explosive limi	<b>ts:</b> ~4.3
(k) Vapor Pressure:	~48.3
(I) Vapor density:	~1.6
(m) Relative density:	ND
(n) Solubility:	Appreciable
(o) Partition coefficient: n-octanol/water:	ND
$(\mathbf{p})$ Auto-ignition tomporature:	-20°C
(p) Auto-ignition temperature.	
(q) Decomposition temperature:	
(r) viscosity:	ND
SECTION 10: Stability and reportivity	
(a) Reactivity	Stable under normal conditions
(a) Reactivity:	Stable under normal conditions.
(b) Chemical stability:	Stable under normal conditions.
(c) Possibility of hazardous reactions:	Hazardous polymerization will not occur, highly flammable.
(d) Conditions to avoid:	Keep away from heat, sparks, open flame, oxidizers, and acids.
(f) Hazardous decomposition products:	Thermal decomposition may liberate carbon oxides/toxic gases.
CECTION 44. Toxicological information	
SECTION IT: Toxicological mormation	Ora ha fatal if swallows d
Acute toxicity	Can be fatal if swallowed.
Skin corrosion/irritation	May cause severe skin burns.
Serious Eye Damage / Irritation	May cause serious eye damage.
Respiratory or skin sensitization	May cause serious respiratory irritation.
Germ cell mutagenicity	ND
Carcinogenicity	Overexposure may create cancer risk.
Reproductive toxicity	ŇD
STOT-single exposure	Skin, eves, respiratory system, kidneys, nerves, liver, lungs, stomach.
STOT-repeated exposure	Can cause blindness, nervous system depression
Aspiration Hazard	Association bazard if swallowed - can enter lungs and cause damage
Aspiration hazaru	Aspiration nazaru il swalloweu - can enter lungs and cause damage.
(a) Exposure route:	Skin, eyes, inhalation, ingestion.
· · ·	
(b) Symptoms related to the physical, chemic	cal and toxicological characteristics:
Skin irritation, tearing, blurred vision, o	difficulty breathing, nausea, drowsiness, dizziness, vomiting, and diarrhea.
(c) Delayed and immediate effects and also c	hronic effects from short and long tem exposure:
Skin irritation, tearing, blurred vision, diffi	culty breathing, nausea, drowsiness, dizziness, vomiting, diarrhea, blindness,
	nervous system depression
(d) Numerical measures of toxicity	
	Dr. (oral) 1000 0 maller (man);   DE0 (akin) 20000 0 maller (rabbita)
Alcohol Anhydrous 95	LDbu (oral) 1000.0 mg/kg (man), LDbu (Skin) 20000.0 mg/kg (rabbits)
	LU50 (Vapors) 1000 ppm (rats)

SECTION 12: Ecological Information	
(a) Ecotoxicity:	Acetone - Mortality LC50 (Fathead minnow, 2h): 7081 - 9120 mg/l EC50 (Water flea, 2h): >100 mg/l Alcohol - Goldfish 250 ppm or mg/L (24h)
(b) Persistence and degradability:	ND
(c) Bioaccumulative potential	ND
(d) Mobility in soil:	This material is a mobile liquid
(e) Other adverse effects:	
	May be harmful of fatal to plan and animal life if felease into the environment.
SECTION 13: Disposal considerations	
Recommendation Dispose of waste and res	sidues in accordance with federal, state, and local authority requirements.
SECTION 14: Transport information	
	UN 1090, UN 1170
(D) UN Proper snipping name	ACETONE, ETHYL ALCOHOL SOLUTION
(c) Transport hazard class(es)	3
(d) Packing Group	2
(e) Environmental hazards	ND
(f) Transport in bulk	ND
(g) Other Information	ND
SECTION 15: Pogulatory information	
SARA Reporting Requirements:	ND
SARA Threshold Planning Quantity:	ND
TSCA Inventory Status:	ND
Other Federal Requirements:	ND
Other Canadian Regulations:	ND
State Regulatory Information:	ND
SECTION 16: Other information	
GAR QMS SDS REFERENCE:	A331
HAZARDOUS MATERIAL IDENTIFICAT	ION (HMIS) RATING:
	2 Health 3 Flammability
	0 Reactivity
	B Other
NATIONAL FIRE PROTECTION ASSOC	IATION (NFPA) RATING:
	1 Health
	3 Flammability
	Other
<b>REVISION NUMBER:</b> 170412	
CHANGES FROM PREVIOUS VERSION Note; on 11/25/19 this SDS was cor	I: Added Chemtrec account number on 4/12/17. rrected to show CHEMTREC instead of CHEMTRAC
ABBREVIATIONS	
NA Not Applicable	LD Lethal Dose
ND Not Determined	TC Toxic Concentration

ND Not Determined NE Not Established ppm parts per million TC Toxic Concentration TD Toxic Dose BOD Biological Oxygen Demand

G Gallon mg Milligram L Liter gm Gram mol Mole kg Kilogram µ Micro mm Millimeter p Pico Pa Pascals c cento LC Lethal Concentration ACGIH American Conference of Governmental Industrial Hygienist **CPR** Controlled Product's Regulation OSHA Occupational Safety and Health Administration NDSL Canadian Non-domestic Substance List IARC International Agency for Research for Cancer

COD Chemical Oxygen Demand Lo Lowest ThOD Theoretical Oxygen Demand TLm Threshold Limit IC Inhibitory Concentration **DOC Dissolved Organic Carbon** H Hours M Months D Days Y Years W Weeks NOEL No Observed Effect Level NOAEL No Observed Adverse Effect Level **DSL** Canadian Domestic Substances List PEL Permissible Exposure Limit **TLV Threshold Limit Value** 

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