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

(a) GHS product identifier

(e) Emergency phone number

CHEMTRAC 1-800-424-9300

(b) Other means of identification Muriatic Acid

(c) Recommended use of the chemical and restrictions on use

Vitex Liquid B

Dental manufacturing or Laboratory use

(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. Hydrochloric Acid

(b) Label Elements

Hazard statements

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well-ventilated area.

Response

IF ON SKIN: Causes severe skin burns. Take off immediately all contaminated clothing. Rinse skin with water or

shower. Wash contaminated clothing before reuse.

IF INHALED: May cause respiratory irritation. Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center or doctor.

IF SWALLOWED: Causes severe burns. Rinse mouth. DO NOT induce vomiting. Immediately call a poison center or doctor if you feel unwell.

IF IN EYES: Causes severe burns and eye damage. Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

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

Hazard Symbol(s) Signal Word(s)

Corrosion Danger

Exclamation Mark

(c) Other hazards which do not result in classification

ND

SECTION 3: Composition/information on ingredients

(a) Chemical(s) Identity: Mixture:

(b) Common Name: (c) CAS No. Concentration (Percentage)

Hydrochloric acid 7647-01-0 10-38%

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SECTION 4: First-aid measures

(a) Description of first aid measures:

IF ON SKIN (or hair): Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.

IF INHALED: Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

IF SWALLOWED: DO NOT INDUCE VOMITING! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek medical attention.

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

Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Causes eye burns. Causes skin burns. Harmful is swallowed or absorbed through skin.

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

Burns, inflammation of respiratory tract, choking, vomiting.

SECTION 5: Fire-fighting measures

(a) Suitable extinguishing media:

Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.

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

Emits toxic (hydrogen chloride gas) fumes under fire conditions.

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

Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

SECTION 6: Accidental release measures

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

Wear chemical safety glasses. Use an OSHA approved respirator. Wear nitrile or rubber gloves and apron.

(b) Environmental precautions:

Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

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

Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

SECTION 7: Handling and storage

(a) Precautions for safe handling:

Wear appropriate Personal Protective Equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

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

Store in cool, dry, well ventilated area. Keep away from incompatible materials.

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SECTION 8: Exposure controls/Personal protection

(a) Control parameters:

ACGIH OSHA
Chemical TLV PEL TWA
Hydrochloric acid 2 ppm, 2.98 mg/m³ 5 ppm, 7mg/m³

(b) Appropriate Engineering Controls:

Ventilate to keep exposures below TLV requirements of the individual ingredients. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary to control fumes. Ensure an eyewash station is near in case of contact with eyes.

(c) Individual protection measures:

RESPIRATORY: None required where adequate ventilation conditions exist. Wear a NIOSH/OSHA approved dust respirator in poorly ventilated areas or if TLV requirements are exceeded.

OTHER PROTECTIVE EQUIPMENT: Wear chemical safety glasses. Wear nitrile or rubber gloves and apron.

SECTION 9: Physical and chemical properties

Light yellow liquid (a) Appearance: Strong, pungent odor. (b) Odor: 0.25 - 10 ppm (c) Odor threshold: Acidic (d) pH: (e) Melting point / freezing point: -30°C (-22°F) 50.5°C (122.9°F) (f) Initial boiling point and boiling range: Not flammable (g) Flash point (h) Evaporation rate (BuAc=1): NA

(i) Flammability: Not Flammable (j) Upper/lower flammability or explosive limits: Not explosive

(k) Vapor Pressure: 227 hPa (170 mmHg) at 21.1°C (70°F) 547 hPa (410 mmHg) at 37.7°C (99.9°F)

(I) Vapor density: 1.267 (air=1)
(m) Relative density: 1.17 g/cm³

(n) Solubility: Soluble in water, diethyl ether.

(o) Partition coefficient: n-octanol/water:NA(p) Auto-ignition temperature:NA(q) Decomposition temperature:NA(r) Viscosity:NA

SECTION 10: Stability and reactivity

(a) Reactivity:Stable(b) Chemical stability:Stable(c) Possibility of hazardous reactions:Will not occur.

(d) Conditions to avoid: Metals, oxidizing agents, organic materials, alkalis, water.

(f) Hazardous decomposition products: Hydrogen chloride gas.

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SECTION 11: Toxicological information		
Acute toxicity	NA	
Skin corrosion/irritation	NA	
Serious Eye Damage / Irritation	NA	
Respiratory or skin sensitization	NA	
Germ cell mutagenicity	May alter genetic material.	
Carcinogenicity	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen for potential carcinogen by OSHA.	
Reproductive toxicity	NA	
STOT-single exposure	Kidneys, liver, mucous membranes, upper respiratory tra- circulatory system, teeth.	act, skin eyes,
STOT-repeated exposure	Kidneys, liver, mucous membranes, upper respiratory tra- circulatory system, teeth.	act, skin eyes,
Aspiration Hazard	Yes	

(a) Exposure route:

inhalation, skin and/or eye contact

(b) Symptoms related to the physical, chemical and toxicological characteristics:

Irritation and burns. Severe eye irritation, conjunctivitis, burns, corneal necrosis. Pain, inflammation of upper respiratory tract and mucous membranes, coughing, sneezing, choking. Ulceration, fever, vomiting, nausea, diarrhea, thirst, difficulty swallowing, salivation.

(c) Delayed and immediate effects and also chronic effects from short and long tem exposure:

Irritation and burns. Severe eye irritation, conjunctivitis, burns, corneal necrosis. Pain, inflammation of upper respiratory tract and mucous membranes, coughing, sneezing, choking. Ulceration, fever, vomiting, nausea, diarrhea, thirst, difficulty swallowing, salivation.

(d) Numerical measures of toxicity:

NA

SECTION 12: Ecological information

(a) Ecotoxicity:

LC50 - Gambusia affinis - 282 mg/L - 96 h

(b) Persistence and degradability:

NA

(c) Bioaccumulative potential

NA

(d) Mobility in soil:

NA

(e) Other adverse effects:

NA

SECTION 13: Disposal considerations

Product:

Recommendation

(a) UN Number

Review operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies before disposing of waste product container.

SECTION 14: Transport information

(b) UN Proper shipping name	Hydrochloric Acid
(c) Transport hazard class(es)	8
(d) Packing Group	0
	2

(e) Environmental hazards

No

UN 1789

(f) Transport in bulk

NA

(g) Other Information

NA

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SECTION 15: Regulatory information

SARA Reporting Requirements: Not listed

NA **SARA Threshold Planning Quantity:**

TSCA Inventory Status: All ingredients are listed on the TSCA Inventory.

All ingredients are listed on the DSCL Inventory. Other Federal Requirements:

Class D-2A: Material causing other toxic effects (VERY TOXIC). Other Canadian Regulations:

Class E: Corrosive material.

Not listed. State Regulatory Information:

SECTION 16: Other information

PREPARED BY: Kathryn Harris

GAR QMS SDS REFERENCE: A059

HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:

3 Health 0 Flammability Reactivity 1 Other Н

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

3 Health Flammability 0 Reactivity Specific hazard NA

150630 **REVISION NUMBER:**

INITIAL VERSION CHANGES FROM PREVIOUS VERSION:

ABBREVIATIONS

NA Not Applicable LD Lethal Dose

ND Not Determined TC Toxic Concentration

NE Not Established TD Toxic Dose

BOD Biological Oxygen Demand ppm parts per million COD Chemical Oxygen Demand G Gallon

mg Milligram Lo Lowest

ThOD Theoretical Oxygen Demand L Liter

gm Gram TLm Threshold Limit mol Mole **IC Inhibitory Concentration**

DOC Dissolved Organic Carbon kg Kilogram

H Hours μ Micro mm Millimeter M Months p Pico D Days Pa Pascals Y Years c cento W Weeks

LC Lethal Concentration

ACGIH American Conference of Governmental Industrial Hygienist

NDSL Canadian Non-domestic Substance List IARC International Agency for Research for Cancer

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

NOEL No Observed Effect Level **CPR Controlled Product's Regulation** DSL Canadian Domestic Substances List

PEL Permissible Exposure Limit TLV Threshold Limit Value

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THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OFCHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.