

Safety Data Sheet

Form No. A899

Date Prepared: 5/30/2023

SECTION 1 : Identification of the substance/preparation and of the company / undertaking**(a) GHS product identifier**

Vitex Liquid B

(e) Emergency phone numberCHEMTREC 1-800-424-9300
CCN9105**(b) Other means of identification**

Muriatic Acid

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

Dental manufacturing or Laboratory use

(d) Supplier's detailsGarreco, 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)

Corrosion

Exclamation Mark

Signal Word(s)

Danger

(c) Other hazards which do not result in classification

ND

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SECTION 3: Composition/information on ingredients**(a) Chemical(s) Identity:****(b) Common Name:**

Hydrochloric acid

(c) CAS No.

7647-01-0

Mixture:**Concentration (Percentage)**

10-38%

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 if 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:**

Chemical	ACGIH TLV	OSHA PEL TWA
Hydrochloric acid	2 ppm, 2.98 mg/m ³	5 ppm, 7mg/m ³

(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

(a) Appearance:	Light yellow liquid
(b) Odor:	Strong, pungent odor.
(c) Odor threshold:	0.25 - 10 ppm
(d) pH:	Acidic
(e) Melting point / freezing point:	-30°C (-22°F)
(f) Initial boiling point and boiling range:	50.5°C (122.9°F)
(g) Flash point	Not flammable
(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)
(l) Vapor density:	1.267 (air=1)
(m) Relative density:	1.17 g/cm ³
(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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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 tract, skin eyes, circulatory system, teeth.
STOT-repeated exposure	Kidneys, liver, mucous membranes, upper respiratory tract, skin eyes, circulatory system, teeth.
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 term 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**

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

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UN 1766

(b) UN Proper shipping name

Hydrochloric Acid

(c) Transport hazard class(es)

8

(d) Packing Group

2

(e) Environmental hazards

No

(f) Transport in bulk

NA

(g) Other Information

NA

SECTION 15: Regulatory information**SARA Reporting Requirements:**

Not listed

SARA Threshold Planning Quantity:

NA

TSCA Inventory Status:

All ingredients are listed on the TSCA Inventory.

Other Federal Requirements:

All ingredients are listed on the DSCL Inventory.

Other Canadian Regulations:Class D-2A: Material causing other toxic effects (VERY TOXIC).
Class E: Corrosive material.**State Regulatory Information:**

Not listed.

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A864

HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:

Health	3
Flammability	0
Reactivity	1
Other	H

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

Health	3
Flammability	0
Reactivity	1
Specific hazard	NA

REVISION NUMBER: 230530**CHANGES FROM PREVIOUS VERSION:** Reviewed for accuracy.**ABBREVIATIONS**

NA Not Applicable
 ND Not Determined
 NE Not Established
 ppm parts per million
 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

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

LD Lethal Dose
 TC Toxic Concentration
 TD Toxic Dose
 BOD Biological Oxygen Demand
 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
 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) OF CHEMICALS 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.