

## 1. Identification

|   |   |                       |  |
|---|---|-----------------------|--|
| <b>Product identifier</b>                                     | <b>Veritas Ultimate Hydrochloric Acid</b>   |                       |  |
| <b>Other means of identification</b>                          |   |                       |  |
| <b>Product code</b>   | 7210  |                       |  |
| <b>Recommended use</b>  | manufacture of other chemical products professional, scientific and technical activities: scientific research and development |                       |  |
| <b>Recommended restrictions</b>                               | None known.   |                       |  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |                       |  |
| <b>Manufacturer</b>   |   |                       |  |
| <b>Company name</b>   | GFS Chemicals, Inc.   |                       |  |
| <b>Address</b>  | 800 Kaderly Drive<br>Columbus, OH 43228<br>United States  |                       |  |
| <b>Telephone</b>  | Phone   | 740-881-5501          |  |
|   | Toll Free   | 800-858-9682          |  |
|   | Fax   | 740-881-5989          |  |
| <b>Website</b>  | www.gfschemicals.com  |                       |  |
| <b>E-mail</b>   | service@gfschemicals.com  |                       |  |
| <b>Emergency phone number</b>                                 | Emergency Assistance  | Chemtrec 800-424-9300 |  |

## 2. Hazard(s) identification

|                              |  |   |
|------------------------------|--|---|
| <b>Physical hazards</b>      | Gases under pressure                               | Liquefied gas                           |
|                              | Corrosive to metals                                | Category 1                              |
| <b>Health hazards</b>        | Acute toxicity, oral                               | Category 4                              |
|                              | Acute toxicity, dermal                             | Category 4                              |
|                              | Acute toxicity, inhalation                         | Category 3                              |
|                              | Skin corrosion/irritation                          | Category 1                              |
|                              | Serious eye damage/eye irritation                  | Category 1                              |
|                              | Specific target organ toxicity, single exposure    | Category 3 respiratory tract irritation |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard | Category 1                              |
| <b>OSHA defined hazards</b>  | Not classified.                                    |   |
| <b>Label elements</b>        |  |   |



|                                |   |
|--------------------------------|---|
| <b>Signal word</b>             | Danger  |
| <b>Hazard statement</b>        | Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.   |
| <b>Precautionary statement</b> |   |
| <b>Prevention</b>              | Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Do not breathe mist or vapor.  |
| <b>Response</b>                | If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. |
| <b>Storage</b>                 | Store in a well-ventilated place. Keep container tightly closed. Store locked up.   |
| <b>Disposal</b>                | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.  |

|  |             |
|--|-------------|
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known. |
| <b>Supplemental information</b>                  | None.       |

### 3. Composition/information on ingredients

#### Substances

| Chemical name     | Common name and synonyms | CAS number | %  |
|-------------------|--------------------------|------------|----|
| WATER             |                          | 7732-18-5  | 63 |
| HYDROGEN CHLORIDE |                          | 7647-01-0  | 37 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  |
| <b>Skin contact</b>   | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.  |
| <b>Ingestion</b>  | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| <b>General information</b>  | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.   |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Use extinguishing agent suitable for type of surrounding fire. Water.  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Irritating, corrosive and/or toxic gases or fumes will be released during a fire.  |
| <b>Special protective equipment and precautions for firefighters</b> | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.  |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.  |
| <b>Methods and materials for containment and cleaning up</b>               | <p>Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. This product is miscible in water. Should not be released into the environment. Clean up in accordance with all applicable regulations.</p> <p>Large Spills: Dike the spilled material, where this is possible. Neutralize with lime or soda ash. Neutralize the spilled material before disposal. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use.</p> |

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities** Store locked up. Store in original tightly closed container.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Material                           | Type    | Value   |
|------------------------------------|---------|---------|
| Veritas Ultimate Hydrochloric Acid | Ceiling | 7 mg/m3 |

5 ppm

| Components                        | Type    | Value   |
|-----------------------------------|---------|---------|
| HYDROGEN CHLORIDE (CAS 7647-01-0) | Ceiling | 7 mg/m3 |

5 ppm

#### US. ACGIH Threshold Limit Values

| Material                           | Type    | Value |
|------------------------------------|---------|-------|
| Veritas Ultimate Hydrochloric Acid | Ceiling | 2 ppm |

| Components                        | Type    | Value |
|-----------------------------------|---------|-------|
| HYDROGEN CHLORIDE (CAS 7647-01-0) | Ceiling | 2 ppm |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Material                           | Type    | Value   |
|------------------------------------|---------|---------|
| Veritas Ultimate Hydrochloric Acid | Ceiling | 7 mg/m3 |

5 ppm

| Components                        | Type    | Value   |
|-----------------------------------|---------|---------|
| HYDROGEN CHLORIDE (CAS 7647-01-0) | Ceiling | 7 mg/m3 |

5 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Provide eyewash station and safety shower.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Use a chemical cartridge respirator for concentrations exceeding the Occupational Exposure Limit.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

**9. Physical and chemical properties**

|   |   |
|---|---|
| <b>Appearance</b>                                   | Clear.  |
| <b>Physical state</b>                               | Gas.  |
| <b>Form</b>   | Liquid.   |
| <b>Color</b>  | Colorless.  |
| <b>Odor</b>   | Pungent.  |
| <b>Odor threshold</b>                               | Not available.  |
| <b>pH</b>   | 0.1 0.10 (1.0 N); 1.10 (0.1 N); 2.02 (0.01 N); 3.02 (0.001 N); 4.01 (0.0001 N)<br>1.01 (0.1 N Solution) |
| <b>Melting point/freezing point</b>                 | -101.2 °F (-74 °C)  |
| <b>Initial boiling point and boiling range</b>      | 228.2 °F (109 °C) @ 20% HCl   |
| <b>Flash point</b>                                  | Not available.  |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not applicable.   |
| <b>Upper/lower flammability or explosive limits</b> |   |
| <b>Flammability limit - lower (%)</b>               | Not available.  |
| <b>Flammability limit - upper (%)</b>               | Not available.  |
| <b>Explosive limit - lower (%)</b>                  | Not available.  |
| <b>Explosive limit - upper (%)</b>                  | Not available.  |
| <b>Vapor pressure</b>                               | 190 torr  |
| <b>Vapor density</b>                                | Not available.  |
| <b>Relative density</b>                             | Not available.  |
| <b>Solubility(ies)</b>                              |   |
| <b>Solubility (water)</b>                           | 670 g/l at 86°F<br>Completely miscible with water.  |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.  |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Not available.  |
| <b>Other information</b>                            |   |
| <b>Density</b>                                      | 1.16 g/cm <sup>3</sup>  |
| <b>Explosive properties</b>                         | Not explosive.  |
| <b>Molecular formula</b>                            | Cl-H  |
| <b>Molecular weight</b>                             | 36.46 g/mol   |
| <b>Oxidizing properties</b>                         | Not oxidizing.  |
| <b>Percent volatile</b>                             | 100 %   |
| <b>Specific gravity</b>                             | 1.16  |

**10. Stability and reactivity**

|   |  |
|---|--|
| <b>Reactivity</b>                         | Reacts violently with strong alkaline substances. This product may react with reducing agents.   |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials. Do not mix with other chemicals.                            |
| <b>Incompatible materials</b>             | Bases. Reducing agents. Contact with most metals produces highly flammable hydrogen gas. Amines. |

**Hazardous decomposition products** Hydrogen chloride.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Causes severe skin burns.

**Eye contact** Causes serious eye damage.

**Ingestion** Causes digestive tract burns. Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing.

### Information on toxicological effects

**Acute toxicity** In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if swallowed. May cause respiratory irritation.

| Product                            | Species | Test Results       |
|------------------------------------|---------|--------------------|
| Veritas Ultimate Hydrochloric Acid |         |                    |
| <b>Acute</b>                       |         |                    |
| <b>Dermal</b>                      |         |                    |
| LD50                               | Mouse   | 3916 mg/kg         |
|                                    |         | 1449 mg/kg         |
| <b>Inhalation</b>                  |         |                    |
| LC50                               | Mouse   | 2995 mg/l          |
|                                    | Rat     | 3124 mg/l 1 hour   |
|                                    |         | 1405 ppm, 4 Hours  |
| <b>Oral</b>                        |         |                    |
| LD50                               | Rabbit  | 900 mg/kg          |
| <b>Components</b>                  |         |                    |
| <b>Species</b>                     |         |                    |
| <b>Test Results</b>                |         |                    |
| HYDROGEN CHLORIDE (CAS 7647-01-0)  |         |                    |
| <b>Acute</b>                       |         |                    |
| <b>Dermal</b>                      |         |                    |
| LD50                               | Mouse   | 1449 mg/kg         |
| <b>Inhalation</b>                  |         |                    |
| LC50                               | Mouse   | 1108 mg/l, 1 Hours |
|                                    | Rat     | 3124 mg/l, 1 Hours |
| <b>Oral</b>                        |         |                    |
| LD50                               | Rabbit  | 900 mg/kg          |
| <b>Other</b>                       |         |                    |
| LD50                               | Mouse   | 1449 mg/kg         |

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation** Causes serious eye damage.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** Irritating to skin.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### IARC Monographs. Overall Evaluation of Carcinogenicity

HYDROGEN CHLORIDE (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

|   |  |
|---|--|
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects. |
| <b>Specific target organ toxicity - single exposure</b>   | May cause respiratory irritation.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not an aspiration hazard.  |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful.   |

## 12. Ecological information

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. |
|--------------------|--|

| Product                            | Species | Test Results   |
|------------------------------------|---------|--|
| Veritas Ultimate Hydrochloric Acid |         |  |
| <b>Aquatic</b>                     |         |  |
| Fish                               | LC50    | Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours |
| Components                         | Species | Test Results   |
| HYDROGEN CHLORIDE (CAS 7647-01-0)  |         |  |
| <b>Aquatic</b>                     |         |  |
| Fish                               | LC50    | Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | None known.   |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. Neutralize with soda ash/slaked lime and discharge to sewer with lots of water. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |

## 14. Transport information

### DOT

|                                     |  |
|-------------------------------------|--|
| <b>UN number</b>                    | UN1789                                   |
| <b>UN proper shipping name</b>      | Hydrochloric acid                        |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 8  |
| <b>Subsidiary risk</b>              | -  |
| <b>Label(s)</b>                     | 8  |
| <b>Packing group</b>                | II                                       |
| <b>Special precautions for user</b> | Not available.                           |
| <b>Special provisions</b>           | A3, A6, B3, B15, IB2, N41, T8, TP2, TP12 |
| <b>Packaging exceptions</b>         | 154                                      |
| <b>Packaging non bulk</b>           | 202                                      |
| <b>Packaging bulk</b>               | 242                                      |

### IATA

|                                |                   |
|--------------------------------|-------------------|
| <b>UN number</b>               | UN1789            |
| <b>UN proper shipping name</b> | Hydrochloric acid |

**Transport hazard class(es)**

|                                     |                |
|-------------------------------------|----------------|
| <b>Class</b>                        | 8              |
| <b>Subsidiary risk</b>              | -              |
| <b>Packing group</b>                | II             |
| <b>Environmental hazards</b>        | No.            |
| <b>ERG Code</b>                     | 8L             |
| <b>Special precautions for user</b> | Not available. |
| <b>Other information</b>            |                |

|                                     |                            |
|-------------------------------------|----------------------------|
| <b>Passenger and cargo aircraft</b> | Allowed with restrictions. |
| <b>Cargo aircraft only</b>          | Allowed with restrictions. |

**IMDG**

|                                     |                   |
|-------------------------------------|-------------------|
| <b>UN number</b>                    | UN1789            |
| <b>UN proper shipping name</b>      | HYDROCHLORIC ACID |
| <b>Transport hazard class(es)</b>   |                   |
| <b>Class</b>                        | 8                 |
| <b>Subsidiary risk</b>              | •                 |
| <b>Packing group</b>                | II                |
| <b>Environmental hazards</b>        |                   |
| <b>Marine pollutant</b>             | No.               |
| <b>EmS</b>                          | F-A, S-B          |
| <b>Special precautions for user</b> | Not available.    |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT****IATA****15. Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

HYDROGEN CHLORIDE (CAS 7647-01-0) Listed.

**SARA 304 Emergency release notification**

Hydrogen chloride (CAS 7647-01-0) 5000 LBS

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

| Chemical name     | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|-------------------|------------|------------------------------|--------------------------------------|---|---|
| HYDROGEN CHLORIDE | 7647-01-0  | 5000                         | 500                                  |   |   |

**SARA 311/312 Hazardous chemical****Classified hazard categories**

Yes

Gas under pressure  
Corrosive to metal  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

| Chemical name     | CAS number | % by wt. |
|-------------------|------------|----------|
| HYDROGEN CHLORIDE | 7647-01-0  | 37       |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

HYDROGEN CHLORIDE (CAS 7647-01-0)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

HYDROGEN CHLORIDE (CAS 7647-01-0)

**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)** Hazardous substance

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

HYDROGEN CHLORIDE (CAS 7647-01-0) 6545

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

HYDROGEN CHLORIDE (CAS 7647-01-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number**

HYDROGEN CHLORIDE (CAS 7647-01-0) 6545

**US state regulations****California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

HYDROGEN CHLORIDE (CAS 7647-01-0)

**International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand          | New Zealand Inventory  | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan               | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |



| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

|                      |  |
|----------------------|--|
| Issue date           | August-19-2021   |
| Revision date        | August-20-2021   |
| Version #            | 03   |
| Disclaimer           | The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. |
| Revision information | Product and Company Identification: Product and Company Identification   |