1. Product Identifier and Company Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>Chlorine</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBCC SDS number</td>
<td>CC16000</td>
</tr>
<tr>
<td>Synonym</td>
<td>Chlorine; Cl2</td>
</tr>
<tr>
<td>Product use and</td>
<td>Refer to label or call</td>
</tr>
<tr>
<td>Restrictions</td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Corporate Headquarters Corporate Safety &amp; Compliance</td>
</tr>
<tr>
<td>Contact Address</td>
<td>Hill Brothers Chemical Company</td>
</tr>
<tr>
<td></td>
<td>1675 North Main Street</td>
</tr>
<tr>
<td></td>
<td>Orange, California 92867</td>
</tr>
<tr>
<td></td>
<td>714-998-8800</td>
</tr>
<tr>
<td></td>
<td>800-821-7234</td>
</tr>
</tbody>
</table>

Emergency telephone Number (Chemtrec): 800-424-9300

Website: http://hillbrothers.com

2. Hazard Identification

Classification:
- Oxidizing Gases – Category 1
- Gases Under Pressure – Liquified Gas
- Acute Toxicity: Inhalation – Category 2
- Skin Corrosion/Irritation – Category 1A
- Serious Eye Damage/Eye Irritation – Category 1
- Specific Target Organ Toxicity (Single Exposure) [Respiratory Tract Irritation] – Category 1
- Specific Target Organ Toxicity (Repeated Exposure) – Category 1
- Hazardous to the aquatic environment – Short-Term (Acute Hazard) – Category Acute 1
- Corrosive to Metals – Category 1

Signal Word: Danger

Pictogram(s):
- Flammable
- Poisonous
- Corrosive

Hazard Statements:
- H330: Fatal if inhaled.
- H314: Causes severe skin burns and eye damage.
- H370: Causes damage to respiratory system.
Precautionary Statements

Response
- P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310: Immediately call a POISON CENTER or doctor.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
- P363: Wash contaminated clothing before reuse.

Prevention
- P260: Do not breathe fumes, mists, vapors, or spray.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P280: Wear protective gloves, protective clothing, and eye and face protection.
- P220: Keep away from clothing and other combustible materials.
- P271: Use only outdoors or in a well-ventilated area.
- P284: In case of inadequate ventilation, wear respiratory protection.
- P244: Keep valves and fittings free from oil and grease.
- P234: Keep only in original packaging.
- P370+P376: In case of fire: Stop leak if safe to do so.

Storage
- P410: Protect from sunlight.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P273: Avoid release to the environment.
- P390: Absorb spillage to prevent material-damage.
- P391: Collect spillage.

Disposal
- P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Ingredient Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td>Chlorine</td>
<td>99.5% - 100%</td>
</tr>
</tbody>
</table>
4. First Aid Measures

Ingestion

Never give anything by mouth to an unconscious person. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

Inhalation

Remove victim to fresh air. If not breathing, give artificial respirations, Preferably mouth-to-mouth. Get Medical Attention Immediately. Keep the affected person warm and at rest. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

Skin

Wash with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

Eyes

Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention immediately. Contact lenses should not be worn when working with chlorine.

Medical Conditions Generally Aggravated by Exposure

Chlorine is a respiratory irritant. Persons with asthma, bronchitis, emphysema or other lung diseases, and chronic nose, sinus or throat conditions may be at increased risk from exposure.

Effects of Overexposure

Overexposure to chlorine can trigger asthma attacks in susceptible individuals. Due to potential for chlorine to produce severe respiratory tract irritation and aggravate heart conditions, workers with lung disease, compromised lung function or conditions should have limited exposure to this material. The threshold odor concentration of chlorine is reported to range from 0.3-3.5 ppm. Repeated exposure to chlorine can result in loss of the ability to detect the odor of chlorine. Chronic overexposure to chlorine has been associated with erosion of the teeth, chest pain, hemoptysis (coughing up blood), nose bleeds, chronic bronchitis and an increased susceptibility to tuberculosis.

Summary of Acute Health Hazards

N/A

Ingestion

Chlorine is a gas at room temperature. Ingestion of liquid chlorine may result in severe irritation or ulceration of the mouth, throat and digestive tract which may be displayed by nausea, pain, vomiting, cyanosis (lack of oxygen in the blood), and, in severe cases, collapse, shock and death.

Inhalation

Major potential route of exposure. Exposure to chlorine gas may cause severe irritation of mucous membranes of the nose, throat, and respiratory tract followed by severe coughing, burning, chest pain, vomiting, headache, anxiety, and feeling of suffocation. Severe breathing difficulties may occur which may be delayed in onset. Severe exposure may lead to pneumonitis and pulmonary edema and may be fatal. Repeated or prolonged exposure may result in reduced pulmonary capacity and dental erosion.

Skin

Contact with liquid chlorine may cause serious burns, blistering and tissue
destruction. Chlorine vapors can cause irritation, burning and blisters.

**Eyes**

- Exposure to chlorine gas may cause severe eye damage. Direct contact of the eyes with liquid chlorine will produce serious eye burns even blindness.

**Note to Physicians**

- No known antidote. Treatment for inhalation is symptomatic and supportive. Keep patient at rest until respiratory symptoms subside. Sedation for apprehension or restlessness may be considered as well as diuretics and antibiotics to alleviate edema and protect against secondary infection. Administer oxygen under exhalation pressure not exceeding 4 cm water for 15 minutes each hour until symptoms subside (except in presence of impending or existing cardiovascular failure). Steroid therapy, if given early, has been reported effective in preventing pulmonary edema. It is recommended that anyone exposed to chlorine gas by inhalation obtain a chest x-ray to check for pulmonary edema.

**Summary of Chronic Health Hazards**

- Repeated or prolonged exposure to chlorine may cause corrosion of the teeth and skin irritation. A study of 600 diaphragm cell workers exposed to 0.006 to 1.42ppm, showed no statistically significant increase in abnormal chest x-rays, ECG's or pulmonary function tests.

### 5. Fire Fighting Measures

**Extinguishing Media**

- Use water spray to keep fire-exposed containers cool, but avoid area where chlorine is leaking. Use extinguishing media as appropriate for materials in the surrounding fire.

**Special Exposure Hazards**

- Noncombustible in air, many metals ignite in presence of chlorine-for example, steel at about 4850°F. May react to cause fire and/or explosion upon contact with turpentine, ether, ammonia, hydrocarbons, certain metal hydrides, carbides, nitrides, oxides, sulfides, phosphides, easily oxidized materials, organic materials or other flammables. Forms Hydrogen Chloride when contacted with water.

**Special Protective Equipment for Firefighters**

- Firefighters MUST use self-contained breathing equipment, eye protection and full protective clothing when fighting fires in which chlorine is involved. Use water spray to keep fire-exposed containers cool, but avoid area where chlorine is leaking.

**Fire Fighting Procedures**

- If material on fire or involved in fire: Use water in flooding quantities as fog. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible. Use "alcohol" foam, dry chemical or carbon dioxide. Use water spray to knock-down vapors. Extinguish fire using agent suitable for type of surrounding fire. Material itself does not burn or burns with difficulty. Apply water from as far a distance as possible. Keep run-off water out of sewers and water sources. Corrosive liquid.

**NFPA Rating**

- Health - 4
- Flammability - 0
- Instability - 0
6. Accidental Release Measures

Personal Precautions: Make daily inspections for leaks. Stop a leak at once, since it will become worse with time. Observe strict safety precautions. Work upwind if possible. Allow any liquid Chlorine to evaporate. For entry into the affected area to correct problem, wear personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling. Only correctly trained and Personal Protective Equipment (PPE)-equipped handlers are permitted to perform such clean-up.

Emergency Procedures: In case of a leak, evacuate everyone from the immediate area.

Methods of Containment And Clean-Up: When possible, move leaking or damaged cylinders outdoors or to an isolated location. Do not permit entry into the leak area by any other person until the Chlorine has completely dispersed.

7. Handling and Storage

Safe Handling: Provide special training to workers handling chlorine. Regularly test and inspect piping and containment used for chlorine service. Liquid levels should be less than 85% of tank or cylinder capacity. Spills of chlorine of 10 or more pounds must be reported to the National Response Center (800 424-8802).

Storage: Store cylinders and ton containers in a dry area away from sources of heat and protected from direct sunlight and precipitation. Do not store in excessive heat. Segregate Chlorine containers from other compressed gases, and never store near hydrocarbons, finely divided metals, turpentine, ether, and anhydrous ammonia or other flammable materials. All storage containers and cylinders must have a weather resistant label and must not be accessible to the general public. Do not drop container. If container is damaged or leaking, refer to procedures in the Chlorine Institutes Pamphlet 1-Chlorine Basics and/or notify supplier immediately. Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.

Work/Hygienic Practices: Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands before eating, drinking, or using restroom. Do NOT place food, coffee or other drinks in the area where dusting or
splashing of solutions is possible.

**Ventilation**

Provide general and local exhaust ventilation to meet TLV of 0.5 ppm. Provide suitable venting for low lying areas. Use enclosed, isolated processing and handling whenever possible.

---

### 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name: Chlorine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure Limits (TWAs) in Air</td>
</tr>
<tr>
<td>CAS Number</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>7782-50-5</td>
</tr>
</tbody>
</table>

**Protective Equipment**

Handlers must wear long-sleeved shirts, long pants, shoes, and socks. Under normal use-conditions, no protective eyewear, respirator, or gloves are required. Since there is always the possibility of a spill or leak, gloves and a respirator of a type specified above must be available and are required for anyone entering into an affected area in the event of a leak or spill. Employees should be required to use impervious clothing, rubber or neoprene gloves, face shields (eight-inch minimum) and other appropriate protective clothing necessary to prevent any possibility of skin contact with liquid chlorine, and to prevent the skin from becoming frozen from contact with vessels containing liquid chlorine. In case of a spill or leak, handlers must wear chemical-resistant gloves (such as nitrile or butyl).

**Eye Protection**

Employees should be required to use splash-proof safety goggles and face shield where there is any possibility of liquid chlorine contacting the eyes. Contact lenses must not be worn when working around chlorine.

**Respiratory Protection**

Handlers must wear a full-face canister-style (gas mask) respirator with a canister approved for chlorine (MSHA/NIOSH approval number prefix TC-14G) OR a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

---

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th><strong>Appearance:</strong> Greenish-yellow gas</th>
<th><strong>Odor:</strong> Suffocating, pungent, irritating odor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Odor Threshold:</strong> 0.2 ppm</td>
<td><strong>pH:</strong> 5.5 @ 0.7% Solution</td>
</tr>
<tr>
<td><strong>Melting Point/Freezing Point:</strong> -101°C; -149.8°F</td>
<td><strong>Initial Boiling Point/Range:</strong> -34°C; -29.3°F</td>
</tr>
<tr>
<td><strong>Flash Point:</strong> Non-flammable</td>
<td><strong>Evaporation Rate (BuAc=1):</strong> N/A</td>
</tr>
<tr>
<td><strong>Flammability:</strong> N/A</td>
<td><strong>Lower/Upper Explosive Limit:</strong> N/A</td>
</tr>
<tr>
<td><strong>Vapor Pressure (mmHg):</strong> 85 PSIG @ 21.1°C; 69°F</td>
<td><strong>Vapor Density (Air=1):</strong> 2.49@ 0°C; 32°F</td>
</tr>
<tr>
<td><strong>Relative Density:</strong> N/A</td>
<td><strong>Solubility in Water:</strong> 0.7 @ 20°C; 68°F</td>
</tr>
<tr>
<td><strong>Partition Coefficient:</strong> N/A</td>
<td><strong>Autoignition Temperature:</strong> N/A</td>
</tr>
<tr>
<td><strong>Decomposition Temperature:</strong> N/A</td>
<td><strong>Viscosity:</strong> N/A</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity : Will react with water or steam to produce toxic and corrosive fumes of Hydrogen chloride.

Chemical Stability : Stable.

Possibility of Hazardous Reactions or Polymerizations : Chlorine is a powerful oxidizing agent which reacts violently with a variety of substances over a broad range of conditions including reducing agents and combustible materials.

Conditions to Avoid : The presence of moisture in gaseous and liquid chlorine increases corrosive Attack on most common metals.

Incompatible Materials : It should be kept away from materials such as acetylene, turpentine, other hydrocarbons, ammonia, hydrocarbons, certain metal hydrides, nitrides, oxides, sulfides, phosphides, easily oxidized materials, organic materials, hydrogen, ether, powdered metals, sulfur, and aluminum. Chlorine reacts with hydrogen sulfide and water forming hydrochloric acid. It combines with carbon monoxide and sulfur dioxide to form phosgene and sulfuryl chloride, respectively, which are toxic and corrosive substances.

Hazardous Decomposition Products : Chlorine does not decompose but reacts violently to form Hydrochloric Acid and other potentially toxic and/or corrosive substances. Chlorine is stable in steel containers at room temperature when dry. Intense local heat on steel walls can cause the steel to react and glow in presence of chlorine.

11. Toxicological Information

Acute and Chronic Effects : High concentrations of chlorine over a short period of time may aggravate pre-existing heart conditions, and cause congestive heart failure. At high concentrations, chlorine gas irritates the skin and can produce sensations of burning and pricking of the skin, with inflammation and blister formation. Exposure to concentrations as low as 5-10 ppm is reported to cause severe irritation of the eyes, nose and respiratory tract which is intolerable after a few minutes.

Routes of Exposure

Inhalation : Expected primary route of occupational exposure.
Skin : Liquid Chlorine is corrosive to skin.
Eyes : Liquid Chlorine is corrosive to eyes and mucous membranes.

Symptoms related to Physical, Chemical & Toxicological Characteristics : At normal atmospheric pressure and temperature, liquid chlorine readily vaporizes to gas. Chlorine gas causes severe irritation of the eyes and respiratory tract with eye injury, restlessness, shortness of breath, cough, choking sensation, sneezing, running nose, chest pain, dizziness, headache, nausea, cyanosis (lack of oxygen in the blood) and respiratory failure. Following respiratory tract injury, onset of severe breathing difficulties, including bronchitis, lung edema
(accumulation of fluid in the lungs) and pneumonia, may be delayed and life threatening.

**Numerical Measures of Toxicity**

The hazard at different concentrations is reported to be as follows:
- 0.2-0.5 ppm = No toxic, long term effect
- 1-3 ppm = Definite odor: irritation of eyes and nose
- 5-8 ppm = Throat, eye, and mucous membrane irritation
- 30 ppm = Intense coughing fits
- 34-51 ppm = Lethal in 1 to 1.5 hours exposure
- 40-60 ppm = Exposure for 30-60 minutes without effective respiration may cause bronchitis, pulmonary edema or bronchopneumonia
- 100 ppm = May be lethal after 50 minutes of exposure (estimated)
- 430 ppm = Lowest concentration known to cause lethality after 30 minutes of exposure
- 1000 ppm = May be fatal with a few deep breaths.

Numerous studies have been conducted to determine the potential chlorine has to cause chronic effects. In rats exposed to concentrations up to 9 ppm for 6 hours a day, 5 days a week for 6 weeks, decreases in body weight and inflammation of the respiratory tract were observed. At exposures of 3 and 9 ppm changes in the liver and kidneys were also noted. Rabbits and guinea pigs exposed to 1.7 ppm for 9 months showed weight loss and a decreased resistance to disease. No adverse effects were observed in rabbits and guinea pigs at levels of 0.7 ppm. Guinea pigs exposed to 1.6 ppm for 5 hours a day, for 47 days and injected with tuberculosis (bacteria) displayed shorter life cycles than those exposed to just one of the agents. Rhesus monkeys exposed to concentrations up to 2.3 ppm for 6 hours a day, 5 days a week for one year did not exhibit any signs of chronic toxicity.

**Reproductive Toxicity:** Two studies have been conducted to assess the ability of chlorine to cause reproductive effects. Rabbits exposed by inhalation to concentrations up to 1.5 ppm and rats exposed by ingestion to highly chlorinated drinking water daily for seven generations did not display any adverse reproductive effects.

**NSF Standard 60 Maximum Use 30 mg/L.**

**Chronic Toxicity** : N/A

**Carcinogenicity** : N/A

**Product Name:** Chlorine

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>IARC</th>
<th>EPA</th>
<th>NIOSH</th>
<th>NTP</th>
<th>OSHA</th>
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</thead>
<tbody>
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<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

**TARGET ORGANS** : May cause damage to the following organs: blood, lungs, upper respiratory tract, skin, eyes, eye, lens or cornea, teeth.

**12. Ecological Information**

**Ecotoxicity** : This pesticide is toxic or highly toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
13. Disposal Considerations

Disposal of Container: Container is returnable and must be properly identified with return tag and returned as promptly as possible to supplier, in accordance with all applicable DOT regulations. All valves must be closed tight and closures or caps secured. It is illegal to ship a leaking Chlorine container.

Chlorine gas will disperse to the atmosphere leaving no residue. When possible, move leaking container to an isolated area. Position to release gas, not liquid. One volume of liquid chlorine is equivalent to about 460 volumes of gas. Absorb in alkaline solution of caustic soda, soda ash, or hydrated lime. Liquid or solid residues must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

14. Transport Information

UN#: UN1017
Proper Shipping Name: Chlorine
Hazard Class/Division: 2.3, (5.1, 8); Poison-Inhalation Hazard, Zone B
Packing Group: N/A
Marine Pollutant: Yes
Special Provisions: 2, B9, B14, N86, T50, TP19

15. Regulatory Information

Chlorine is contained on a list as required under Sec 101(14) of CERCLA, which includes substances designated pursuant to SEC 311 of the Clean Water Act, Hazardous Wastes under SEC 3002 of RCRA, Toxic pollutants under SEC 307 of the Clean Water Act, Hazardous Air Pollutants under SEC 112 of the Clean Air Act, Imminently Hazardous Chemicals under Sec 7 of TSCA. Chlorine is designated a hazardous substance by 29 CFR Sec 1910, Subpart Z. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) is applicable if chlorine is used as a pesticide or in water or sewer treatment applications.
**FIFRA LABEL INFORMATION:**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and the hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is hazard information as required on the pesticide label:

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS:** DANGER. Fatal if inhaled or absorbed through skin. Corrosive. Causes irreversible eye damage and skin burns. Do not breathe vapors or get in eyes, on skin or clothing. Wear goggles, protective clothing and rubber gloves as discussed below. Wash hands thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic or highly toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of the National Pollutant Discharge Elimination Systems (NPDES) permit and the Permitting Authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**PHYSICAL AND CHEMICAL HAZARDS:** Chlorine is a non-flammable gas, liquefied under pressure. Do not drop container. Do not heat container. Keep away from intense heat or open sunlight. Corrosive to most metals in the presence of moisture.

<table>
<thead>
<tr>
<th>SARA 302 Extremely Hazardous Substance (EHS)</th>
<th>Chlorine CAS #7782-50-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threshold Planning Quantity (TPQ) = 100 lbs. (45.4 kgs.) (8.77 gals.)</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>SARA 304 Extremely Hazardous Substance (EHS)</th>
<th>CAS #7782-50-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reportable Quantity (RQ) = 10 lbs. (4.54 kgs.) (0.877 gals.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA 311/312 Hazard Classification</th>
<th>:</th>
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<table>
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<tr>
<th>Sara 311/312 Hazards</th>
<th>Acute</th>
<th>Chronic</th>
<th>Flammability</th>
<th>Pressure</th>
<th>Reactivity</th>
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<tr>
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<td>No</td>
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<td>Yes</td>
<td>No</td>
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<table>
<thead>
<tr>
<th>Section 313 Supplier Supplier Notification</th>
<th>Chlorine CAS #7782-50-5, % by Weight: 99.5%</th>
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<table>
<thead>
<tr>
<th>CERCLA Hazardous Substance</th>
<th>Chlorine CAS #7782-50-5</th>
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<tbody>
<tr>
<td>Reportable Quantity (RQ) = 10 lbs. (4.54 kgs.) (0.877 gals.)</td>
<td></td>
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<table>
<thead>
<tr>
<th>Clean Air Act (CAA)</th>
<th>This product is a listed pollutant under the US Clean Air Act, Section 12 (40 CFR 61) Chlorine, CAS #7782-50-5</th>
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</thead>
<tbody>
<tr>
<td>Threshold Quantity (TQ) = 2,500 lbs.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>California Prop 65</th>
<th>None of the chemicals in this product are listed as carcinogens under California Prop 65.</th>
</tr>
</thead>
</table>
**Label Warning**: DANGER POISON: Fatal if inhaled. Liquid Causes Severe Burns

**EPA Registration(s)**: This product is registered under FIFRA as an anti-microbial pesticide.
EPA Reg. No. 266-35; EPA Est. No. 266-AZ-1

**NSF**

Maximum use level for Chlorine Gas under NSF/ANSI Standard 60
Chlorine Gas     Maximum Use     30 mg/L

## 16. Other Information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>: 04/14/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supersed</td>
<td>11/24/2014</td>
</tr>
<tr>
<td>First Issue</td>
<td>11/14/1986</td>
</tr>
<tr>
<td>Chemical Family/Type</td>
<td>Halogen Gas</td>
</tr>
</tbody>
</table>

**Section(s) changed since last revision**: Second Issue SDS Conversion

**IMPORTANT!** Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This SDS has been prepared in accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (GHS) Fifth Edition and the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The SDS information is based on sources believed to be reliable. Available data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control; **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks and exercise appropriate precautions for protection of employees and others prior to use.