SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification: Occidental Chemical Corporation
14555 Dallas Parkway, Suite 400, Dallas, Texas 75254-4300

24 Hour Emergency Telephone Number: 1-800-733-3665 (USA); CANUTEC (Canada): 1-613-996-6666; CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186

To Request an SDS: MSDS@oxy.com or 1-972-404-3245

Customer Service: 1-800-752-5151 or 1-972-404-3700

Product Identifier: ACL® 90 PLUS CHLORINATING COMPOSITION

Trade Name: Symclosene; Trichlor; TCCA

Synonyms: Trichloroisocyanuric acid; Trichloro-s-triazinetrione; 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione,1,3,5-trichloro-

Product Type: Algaecide, Disinfectant, Sanitizer, Bactericide, Fungicide, Microbiocide/Microbiostat

Restrictions on Use (United States): This is a pesticide product; do not use in a pesticide application that is not approved by the EPA. EPA Reg. No. 935-37 (ACL® 90 Plus Chlorinating Composition).

Restrictions on Use (EU): There are no uses advised against noted in the CSR.

Other Global Restrictions on Use: This product is registered as a biocide in Canada under PCP Reg No.18228 - (ACL 90 Plus Chlorinating Composition). Other restrictions on use based on local, regional, or national regulations may exist and must be determined on a
ACL® 90 PLUS CHLORINATING COMPOSITION

SDS No.: M31035
Supersedes Date: 2018-06-26

Rev. Date: 04-Sep-2020

This product is a registered pesticide: US EPA: 935-37 and Canada PCP:18228.

Re-packers or formulators are responsible for obtaining and maintaining all required and applicable registrations of their products: (EPA, PMRA, BPD/BPR, state, etc.).

SECTION 2. HAZARDS IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EMERGENCY OVERVIEW:

Color: White
Physical State: Solid
Appearance: Crystals, Granules
Odor: Slight chlorine odor
Signal Word: DANGER

MAJOR HEALTH HAZARDS: CORROSIVE. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. FATAL IF INHALED. HARMFUL IF SWALLOWED.

PHYSICAL HAZARDS: MAY INTENSIFY FIRE; OXIDIZER. Contact with water liberates irritating and hazardous chlorine containing gases. Contamination with moisture, organic material, or other incompatible chemicals may start a reaction with generation of heat, liberation of hazardous gases, and possible fire and explosion. Contact with acids liberates toxic gas. Products exceeding 225 °C ( 437 °F ) will decompose with liberation of toxic gases and possible fire and explosion. When ignited will burn with the evolution of chlorine and equally toxic gases. Do not get water inside container. Wet or damp material may generate large quantities of nitrogen trichloride (NCl3) in a short period of time, an explosive chemical with lachrymatory vapors.

AQUATIC TOXICITY: Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: Do not breathe dusts or mists. Wash skin and contaminated clothing thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation, wear respiratory protection. Wear protective gloves, protective clothing, eye, and face protection. Avoid release to the environment. Keep away from heat, sparks, open flames, hot surfaces - No smoking. Keep away from combustible materials. Take precaution to avoid mixing with combustibles, acids, ammonia, bases,
floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds.

**ADDITIONAL HAZARD INFORMATION:** Do not get water inside container; damp or wet material may generate nitrogen trichloride, an explosion hazard. This material is corrosive and an oxidizer. May cause burns to moist skin if not promptly removed. There is no specific antidote. To treat contacted tissue, flush with water to dilute.

**HAZARD CLASSIFICATION:**

<table>
<thead>
<tr>
<th>GHS: PHYSICAL HAZARDS:</th>
<th>Oxidizing Solid - Category 2 - May intensify fire; oxidizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS: CONTACT HAZARD - SKIN:</td>
<td>Category 1C - Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>GHS: CONTACT HAZARD - EYE:</td>
<td>Category 1 - Causes serious eye damage</td>
</tr>
<tr>
<td>GHS: ACUTE TOXICITY - INHALATION:</td>
<td>Category 2 - Fatal if inhaled</td>
</tr>
<tr>
<td>GHS: ACUTE TOXICITY - ORAL:</td>
<td>Category 4 - Harmful if swallowed</td>
</tr>
<tr>
<td>HAZARDS NOT OTHERWISE CLASSIFIED (HNOC):</td>
<td>AQUATIC TOXICITY - ACUTE: Category 1 (Very toxic to aquatic life)</td>
</tr>
<tr>
<td></td>
<td>AQUATIC TOXICITY - CHRONIC: Category 1 (Very toxic to aquatic life with long lasting effects)</td>
</tr>
<tr>
<td>GHS: SUPPLEMENTAL HAZARD:</td>
<td>Contact with acids liberates toxic gas</td>
</tr>
</tbody>
</table>

**GHS SYMBOL:** Oxidizer, Corrosion, Skull and Crossbones, Environmental hazard

**GHS SIGNAL WORD:** DANGER

**GHS HAZARD STATEMENTS:**

**GHS - Physical Hazard Statement(s)**
- May intensify fire; oxidizer

**GHS - Health Hazard Statement(s)**
- Causes severe skin burns and eye damage
- Harmful if swallowed
- Fatal if inhaled

**Additional Hazards - GHS Hazards Not Otherwise Classified (HNOC):**
- ACUTE AQUATIC HAZARD - CATEGORY 1: Very toxic to aquatic life
- CHRONIC AQUATIC HAZARD - CATEGORY 1: Very toxic to aquatic life with long lasting effects

**GHS - Precautionary Statement(s) - Prevention**
- Keep away from heat
- Keep away from combustible materials
- Take precaution to avoid mixing with combustibles, acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds
- Do not breathe dusts or mists
- Wash skin and contaminated clothing thoroughly after handling
• Do not eat, drink or smoke when using this product
• Use only outdoors or in a well-ventilated area
• Wear protective gloves, protective clothing, eye, and face protection
• In case of inadequate ventilation, wear respiratory protection
• Avoid release to the environment

GHS - Precautionary Statement(s) - Response
• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
• IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
• IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
• IF INHALED: Immediately call a POISON CENTER OR PHYSICIAN
• Specific treatment is urgent if inhaled (see First Aid information on product label and/or Section 4 of the SDS)
• IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower
• Wash contaminated clothing before reuse
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
• IF EXPOSED (skin/eye): Immediately call a POISON CENTER OR PHYSICIAN
• Specific treatment for skin or eye contact (see First Aid information on product label and/or Section 4 of the SDS)
• In case of fire: Use flooding with copious amounts of water to extinguish. Do not use ABC fire extinguishers. Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents
• Collect spillage

GHS - Precautionary Statement(s) - Storage
• Store in a well-ventilated place. Keep container tightly closed
• Store in a secure manner

GHS - Precautionary Statement(s) - Disposal
• Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

Physical Hazards Not Otherwise Classified
• Reacts in contact with water to evolve nitrogen trichloride, an explosion hazard
• Wet or damp material may generate large quantities of nitrogen trichloride (NCl3) in a short period of time, an explosive chemical with lachrymatory vapors
• Products exceeding 225 °C (437 °F) will decompose with liberation of toxic gases and possible fire and explosion
• NFPA Class 1 Oxidizer (An oxidizer that does not moderately increase the burning rate of combustible materials with which it comes into contact)

Hazard Not Otherwise Classified (HNOC)-Health
• Contact with water liberates irritating and hazardous chlorine containing gases
• Damp or wet material may generate hazardous and toxic gases
• Contact with acids liberates toxic gas
• Products exceeding 225 °C (437 °F) will decompose with liberation of toxic gases and possible fire and explosion

See Section 11: TOXICOLOGICAL INFORMATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
ACL® 90 PLUS CHLORINATING COMPOSITION

SECTION 4. FIRST AID MEASURES

INHALATION: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

SKIN CONTACT: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. IF EXPOSED: Immediately call a POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse.

EYE CONTACT: 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.

INGESTION: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Most Important Symptoms/Effects (Acute and Delayed):

- **Acute Symptoms/Effects:**
  - Inhalation (Breathing): Respiratory System Effects. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure. See inhalation explanation in Section 11 Potential Health Effects for additional information.
  - Skin: Skin Corrosion. Exposure to solid along with moisture may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.
  - Eye: Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye-lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to internal eye structures.
  - Ingestion (Swallowing): Gastrointestinal Effects. Exposure by ingestion may cause irritation, nausea, and vomiting. May cause local tissue damage to esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.

- **Delayed Symptoms/Effects:**
  - Repeated and prolonged skin contact may cause a dermatitis

Protection of First-Aiders: Protect yourself by avoiding contact with this material. Use personal protective equipment. Refer to Section 8 for specific personal protective equipment recommendations. Avoid contact with skin and eyes. Do not ingest. At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission.

Notes to Physician: Treat as a corrosive substance. This material is more irritating to the skin and eyes in the
presence of water. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Cyanuric acid is readily removed from the body via the renal system, and is not bioaccumulated. Treatment is supportive care. Follow normal parameters for airway, breathing, and circulation.

**Interaction with Other Chemicals Which Enhance Toxicity:** Contact with acids liberates toxic gas.

**Medical Conditions Aggravated by Exposure:** May aggravate preexisting conditions such as eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin; and respiratory conditions including asthma and other breathing disorders.

## SECTION 5. FIRE-FIGHTING MEASURES

**Fire Hazard:** According to NFPA 400 (Hazardous Materials Code), this material is classified as a Class 1 Oxidizer. Class 1 Oxidizers are oxidizers that do not moderately increase the burning rate of combustible materials with which it comes into contact. Wet material may generate nitrogen trichloride, an explosion hazard. Products exceeding 225 °C (437 °F) will decompose with liberation of toxic gases and possible fire and explosion. Negligible fire hazard.

**Explosive properties:** Damp or wet material may generate nitrogen trichloride, an explosion hazard. See Section 10 for stability and reactivity precautions.

**Extinguishing Media:** Flood with copious amounts of water.

**Unsuitable Extinguishing Media:** DO NOT use ABC or other dry chemical extinguishers. There is the potential for a violent reaction if extinguishing with ABC or other dry chemical extinguishers. DO NOT USE carbon dioxide as an extinguishing agent. DO NOT USE halogenated extinguishing agents.

**Specific Hazards:** STRONG OXIDIZING AGENT.

**Unusual Hazards:** Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. Use extreme caution when inspecting damaged packaging as damp or wet material may generate nitrogen trichloride, an explosion hazard and/or other hazardous and toxic gases.

**Advice for Firefighters:** Consider evacuation of personnel located downwind. Keep unnecessary people away, isolate hazard area and deny entry. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Material which appears undamaged except for being damp on the outside, should be opened and inspected immediately. DO NOT attempt to reseal contaminated drums. Damp material should be allowed to thoroughly dry or be neutralized to a non-oxidizing state. Contact manufacturer for instructions for handling and disposal of damp material.

**Hazardous Combustion Products:** Chlorine; Nitrogen; Nitrogen trichloride; Cyanogen chloride; Oxides of carbon; Phosgene

**Sensitivity to Mechanical Impact:** Not sensitive.

**Sensitivity to Static Discharge:** Not sensitive.
ACL® 90 PLUS CHLORINATING COMPOSITION

Lower Flammability Level (air): Not flammable
Upper Flammability Level (air): Not flammable
Flash point: Not applicable
Auto-ignition Temperature: Not determined

GHS: PHYSICAL HAZARDS:
- Oxidizing Solid - Category 2 - May intensify fire; oxidizer
- Reacts in contact with water to evolve nitrogen trichloride, an explosion hazard
- Wet or damp material may generate large quantities of nitrogen trichloride (NCl3) in a short period of time, an explosive chemical with lachrymatory vapors
- Products exceeding 225 °C (437 °F) will decompose with liberation of toxic gases and possible fire and explosion
- NFPA Class 1 Oxidizer (An oxidizer that does not moderately increase the burning rate of combustible materials with which it comes into contact)

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unnecessary and unprotected persons away. Isolate hazard area and deny entry. Do not get in eyes, on skin or on clothing. Do not breathe dust, fume, gas, mist, vapors, or spray. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS. Keep away from combustible materials.

Personal Protective Equipment: For Unknown Concentrations or exposures above IDLH (Immediately Dangerous to Life or Health) - Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Environmental Precautions: This material is very toxic to aquatic life with long lasting effects. This material is acidic and may lower the pH of surface waters. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

Methods and Materials for Containment, Confinement, and/or Abatement: DO NOT add water to spilled material. DO NOT use floor sweeping compounds to clean up spills. Sweep and scoop spilled material into clean, dedicated equipment. Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up. DO NOT attempt to reseal contaminated drums. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state. Contact manufacturer for instructions for handling and disposal of damp material.

Recovery: Contain spilled material. Any spillage of ACL products should be cleaned up as soon as possible to prevent contamination with foreign materials with which it may react. Floor sweeping compounds should not be used. KEEP SPILLED MATERIAL DRY. If allowed to stand in damp or wet areas, tear producing vapors may result. Keep unneutralized ACL out of sewers, watersheds and water systems. Using clean, dedicated equipment, sweep and scoop up all spilled material, contaminated soil and other contaminated material and place into clean
dry containers for disposal. Complete cleanup on a dry basis if possible. Sweeping compounds or other contaminants should not be mixed with ACL during this cleanup operation as fuming, fire or explosion may result. Follow all protective measures indicated in the “Personal Precautions and Personal Protective Equipment” sections of this document.

**Neutralization:** The neutralization process involves the addition of waste ACL products to alkaline aqueous solutions maintained at a pH of 10.5 (e.g. sodium hydroxide; sodium carbonate; or sodium sulfite). At this pH (10.5), the major fraction of chlorine is destroyed by chemical reactions between chlorine and cyanuric acid contained in the waste ACL. **THIS PROCESS SHOULD ONLY BE CARRIED OUT AFTER CAREFULLY REVIEWING THE ACL® WASTE NEUTRALIZING PROCEDURE PROVIDED BY OXYCHEM TECHNICAL SERVICE.**

**Final Disposal:** For waste disposal, see section 13.

**SECTION 7. HANDLING AND STORAGE**

**Handling:**

**Precautions for Safe Handling:** Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or dust when opening container. Avoid creation of dust. Wash thoroughly after handling. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS. NEVER add water to this product. Always add product to large quantities of water. Use clean, dry utensils. Do not add the product to any dispensing device containing residuals of other products. Take any precaution to avoid mixing with combustibles or incompatible materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Technical measures/precautions:** Due to the thermal decomposition properties of product, friction-producing equipment, such as screw conveyors or items with internal bearings, should be avoided whenever possible.

**Prevention of contact:** Provisions should be made to open and use ACL containers in well-ventilated work areas to protect handlers from excessive chlorine odor and dust. See Section 8, Exposure Controls and Personal Protection, for additional information.

**Storage:**

**Safe Storage Conditions:** Store and handle in accordance with all current regulations and standards. (NFPA Oxidizer Class 1). Store away from open flames, and combustibles. Store in original container and in a dry area where temperatures do not exceed 52 °C (125 °F) for 24 hours. Do not allow water to get in container. If liner is present, tie after each use. Keep container tightly closed and properly labeled. Store containers on pallets. Keep away from food, drink and animal feed. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

**Technical measures:** ACL should be stored in a cool (temperatures not to exceed 125°F for 24 hours), dry, well-ventilated area, segregated from incompatible chemicals. Storage conditions should comply with the requirements established by the National Fire Protection Association’s NFPA 1 – Uniform Fire Code and/or NFPA 400 – Hazardous Materials Code and/or the International Code Council’s (ICC) International Fire Code. Since both NFPA and ICC codes are used throughout the U.S., consult with local fire departments to determine which codes apply.

**Incompatible Substances:** ACLs are highly reactive oxidizing and chlorinating agents. Precautions should be taken to prevent the mixing of these products with other incompatible chemicals during storage, handling and manufacture. Some chemicals incompatible with ACLs include (but are not limited to): Strong acids or bases; Amino Compounds
(amines; amides; ammonia, and ammonium salts) and hydrazines; Acetic acid and acetic anhydride; Alcohols (methyl, ethyl, isopropyl, etc.) and phenols; Alkenes and acetylene; Biuret; Calcium hypochlorite; Ethers; Fungicides; Glycerin; Mineral reducing agents (sulfides, bisulfites, thiosulfates, nitrites, cyanide salts, etc.); Oils and paints; Organic or mineral oxidizers (peroxides, perborates, percarbonates); Petroleum products (gasoline, kerosene, etc.); Urea. Substances not listed must be evaluated for compatibility prior to use.

Packaging Material: ACL products have excellent stability when they are properly packaged and stored; however, these materials can form enough chlorine-containing gases to cause deterioration of the container. Therefore, the standard shelf-life for packaged product (in bulk bags, plastic drums or pails) is two years. The one exception is for product in cardboard cases where the shelf-life is six months. These guidelines are based on potential deterioration of packaging and not on degradation of product.

Additional Information:
GHS: PHYSICAL HAZARDS:
- Oxidizing Solid - Category 2 - May intensify fire; oxidizer

Physical Hazards Not Otherwise Classified
- Reacts in contact with water to evolve nitrogen trichloride, an explosion hazard
- Wet or damp material may generate large quantities of nitrogen trichloride (NCl3) in a short period of time, an explosive chemical with lachrymatory vapors
- Products exceeding 225 °C (437 °F) will decompose with liberation of toxic gases and possible fire and explosion
- NFPA Class 1 Oxidizer (An oxidizer that does not moderately increase the burning rate of combustible materials with which it comes into contact)

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

REGULATORY EXPOSURE LIMIT(S):
This product does not contain any components that have regulatory occupational exposure limits (OEL's).

NON-REGULATORY EXPOSURE LIMIT(S):
This product does not contain any components that have advisory (non-regulatory) occupational exposure limits (OEL's). However, Occidental Chemical Corporation has established a Manufacturer Recommended Exposure Limit (REL) for Trichloroisocyanuric Acid, of 0.5 mg/m³ for an 8-hour time weighted average (TWA). Contact manufacturer for further information addressing appropriate exposure monitoring / sampling methods. Recommended Exposure Limits (REL's) are non-regulatory occupational exposure limits that the manufacturer has established based on health effects data.

<table>
<thead>
<tr>
<th>Component</th>
<th>OXY REL 8 hr TWA</th>
<th>OXY REL STEL</th>
<th>OXY REL Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloro-s-triazinetrione 87-90-1</td>
<td>0.5 mg/m³</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Additional Advice: Chlorine and chlorine compounds may be found in slight amounts in the head-space of containers of this product.

ENGINEERING CONTROLS: Use only in well-ventilated areas. Provide local exhaust ventilation where dust or mist
may be generated. Conventional mixer types can be used for the formulation of these products but should be designed or modified to minimize attrition, dusting or spilling. Provision should be made to collect any dust from the mixer in a suitable dust-collecting system. Note, the dust collection system for ACL products should not be used to collect dust from materials that will react with ACL products. All equipment should be thoroughly cleaned before and after mixing to prevent the possibility of undesired reactions or fire as a result of accidental contamination. Ensure compliance with applicable exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** Wear chemical safety goggles with a face shield to protect against eye and skin contact when appropriate. Provide an emergency eyewash fountain and quick drench shower in the immediate work area.

**Skin and Body Protection:** Wear protective clothing to minimize skin contact. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®. Contaminated clothing should be removed and laundered before reuse.

**Hand Protection:** Wear appropriate chemical resistant gloves. Consult a glove manufacturer for assistance in selecting an appropriate chemical resistant glove.

**Protective Material Types:** Butyl rubber, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek®

**Respiratory Protection:** In case of inadequate ventilation, wear respiratory protection. A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. Acid gas cartridges with N95 filters are required when fumes or vapor may be generated. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight chlorine odor</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>232.4</td>
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<tr>
<td>Molecular Formula</td>
<td>C3N3O3Cl3</td>
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<tr>
<td>Chemical Family</td>
<td>CHLORINATED ISOCYANURATES</td>
</tr>
<tr>
<td>pH</td>
<td>2.9 - 3.5 @ 25 °C (1% solution)</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>225–230°C (decomposes)</td>
</tr>
<tr>
<td>Freezing Point/Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt;1.5×10⁻⁵ mm Hg at 20°C (measured)</td>
</tr>
<tr>
<td></td>
<td>1.6×10⁻⁸ mm Hg at 25°C (estimated)</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Density/Specific Gravity (water=1)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
 SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at normal temperatures and pressures.

**Reactivity:** Not reactive under normal temperatures and pressures.

**Possibility of Hazardous Reactions:** Do not get water inside container. Wet material may generate nitrogen trichloride, an explosion hazard. Avoid contact with easily oxidizable organic material. Contact with acids liberates toxic gas.
- ACL in the presence of ammonia gas or aqueous solutions of ammonia will generate hazardous amounts of explosive nitrogen trichloride.
- Contamination with oils and greases may cause decomposition of ACL with formation of CO2, Cl2, and other toxic gases.
- Hydrogen peroxide may react violently with ACL with liberation of oxygen.

**Conditions to Avoid (e.g., static discharge, shock, or vibration):** ACL materials in themselves are very stable to static discharge, shock or vibration. They do not present a dust explosion hazard. Wet material may generate nitrogen trichloride, an explosion hazard. Nitrogen trichloride (NCl3) can appear as a yellow, oily liquid or vapor. Any quantity of NCl3 is potentially explosive. Liquid NCl3 will explode in contact with certain organic impurities, when melting after having been frozen, from impact or supersonic vibration, or on heating to 60°C or above. Vapor NCl3 can be exploded or decomposed (to N2 and Cl2) when concentrations in air are as low as 0.3%. At this low concentration, however, the propagation rate is extremely slow, on the order of several minutes per foot. At concentrations of 3-4%, the detonation is explosive with an instantaneous pressure rise. There are no good data on what temperature or conditions are required to explode the gas. It is known that NCl3 vapor (or vapor-air mixture) can be exploded by a spark or by temperature in excess of 100°C.

**Incompatible Substances:** ACLs are highly reactive oxidizing and chlorinating agents. Precautions should be taken to prevent the mixing of these products with other incompatible chemicals during storage, handling and manufacture. Some chemicals incompatible with ACLs include (but are not limited to): Strong acids or bases; Amino Compounds (amines; amides; ammonia, and ammonium salts) and hydrazines; Acetic acid and acetic anhydride; Alcohols (methyl, ethyl, isopropyl, etc.) and phenols; Alkenes and acetylene; Biuret; Calcium hypochlorite; Ethers; Fungicides; Glycerin; Mineral reducing agents (sulfides, bisulfites, thiosulfates, nitriles, cyanide salts, etc.); Oils and paints; Organic or mineral oxidizers (peroxides, perborates, percarbonates); Petroleum products (gasoline, kerosene,
etc.); Urea. Substances not listed must be evaluated for compatibility prior to use.

**Hazardous Decomposition Products:** Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, Oxides of Carbon, Phosgene.

**Hazardous Polymerization:** Not expected to occur.

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### SECTION 11. TOXICOLOGICAL INFORMATION

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**POTENTIAL HEALTH EFFECTS:**

**TOXICITY:**
Monosodium cyanurate was administered via drinking water to rats for 104 weeks at concentrations of 0, 400, 1200, 2400, and 5375 ppm (solubility limit). No compound-related effects on body weights, clinical signs of toxicity or food or water consumption were noted during the study. An increased incidence of gross lesions in the urinary tract, calculi in the kidney and lesions in the heart were observed in males receiving the highest dose level of 5375 ppm (solubility limit). The health effects seen in this study were due to precipitation of the test substance in the urinary tract when the test substance was fed at the solubility limit. Adverse health effects were not seen at lower doses where precipitation did not occur.

**ACUTE TOXICITY:**

- **Eye contact:** Eye exposures may cause burns to the eye lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to the internal eye structures.
- **Skin contact:** Exposure to solid along with moisture may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns. Dry material is less irritating than wet material. This material is not a skin sensitizer based on studies with guinea pigs.
- **Inhalation:** This material in the form as sold is NOT expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.
- **Ingestion:** Exposure by ingestion may cause irritation, nausea, and vomiting. May cause local tissue damage to epiglottis, mucus membranes of the mouth, esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.

**CHRONIC TOXICITY:**

- **Chronic Effects:** None identified for the parent chemical. Based on animal studies, exposure to concentrations of monosodium cyanurate at the solubility limit may cause cardiovascular, kidney and urinary bladder effects.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

- **Inhalation (Breathing):** Respiratory System Effects. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure. See inhalation explanation in Section 11 Potential Health Effects for
additional information.

**Skin:** Skin Corrosion. Exposure to solid along with moisture may cause redness, irritation, burning sensation, swelling, blister formation, first, second, or third degree burns.

**Eye:** Serious Eye Damage. Exposure to eyes may cause irritation and burns to the eye-lids, conjunctivitis, corneal edema, and corneal burn. Significant and prolonged contact may cause damage to internal eye structures.

**Ingestion (Swallowing):** Gastrointestinal Effects. Exposure by ingestion may cause irritation, nausea, and vomiting. May cause local tissue damage to esophagus and stomach such as burning, inflammation, local ulceration, and may cause gastrointestinal bleeding.

**Interaction with Other Chemicals Which Enhance Toxicity:** Contact with acids liberates toxic gas.

**GHS HEALTH HAZARDS:**

| GHS: CONTACT HAZARD - SKIN: | Category 1C - Causes severe skin burns and eye damage |
| GHS: CONTACT HAZARD - EYE:  | Category 1 - Causes serious eye damage |
| GHS: ACUTE TOXICITY - ORAL: | Category 4 - Harmful if swallowed |
| GHS: ACUTE TOXICITY - INHALATION: | Category 2 - Fatal if inhaled |

**TOXICITY DATA:**

**PRODUCT TOXICITY DATA:** Data is from studies conducted internally.

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral LD50</td>
<td>Dermal LD50</td>
<td>Inhalation LC50</td>
</tr>
<tr>
<td>Trichloro-s-triazinetrione</td>
<td>809 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg (Rabbit)</td>
<td>&gt;0.09 - &lt;0.29 mg/L (4-h Rat)</td>
</tr>
<tr>
<td>Cyanuric acid</td>
<td>&gt;5000 mg/kg (Rabbit)</td>
<td>0.09 - 0.29 mg/L (4-h Rat)</td>
<td></td>
</tr>
</tbody>
</table>

**COMPONENT TOXICITY DATA:** The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloro-s-triazinetrione</td>
<td>406 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg (Rabbit)</td>
<td>0.09 - 0.29 mg/L (4-h Rat)</td>
</tr>
<tr>
<td>Cyanuric acid</td>
<td>&gt;5000 mg/kg (Rabbit)</td>
<td>0.09 - 0.29 mg/L (4-h Rat)</td>
<td></td>
</tr>
</tbody>
</table>

**Standard Draize (Eye):** PRIMARY EYE IRRITATION: Severe Irritation, Corrosive (rabbit, 24 hr)

**Eye Irritation/Corrosion:** Corrosive to the eyes and may cause severe damage including blindness.

**Standard Draize (Skin):** PRIMARY SKIN IRRITATION: Severe Irritation, Corrosive (rabbit, 24 hr)

**Skin Irritation/Corrosion:** This product is classified as causing severe skin burns (Category 1, H314), according to GHS classification criteria.

**Skin Absorbent / Dermal Route:** NO.

**RESPIRATORY OR SKIN SENSITIZATION:** Trichloro-s-triazinetrione is corrosive to the skin and eyes of rabbits and is not a dermal sensitizer in guinea pigs. Not classified as a skin or respiratory sensitizer per GHS criteria.

**CARCINOGENICITY:** TCCA is unstable in the body, particularly the stomach, because the free available chlorine is rapidly reduced. CYA, or its salt, is the stable degradation product. Therefore, CYA, or its sodium salt, is the substance of interest for the carcinogenicity studies. Two (2) year carcinogenicity studies in rats and mice were
carried out according to EU method B.33. Studies showed that the monosodium salt of cyanuric acid was non-oncogenic by the oral route. This product is not classified as a carcinogen by NTP, IARC or OSHA.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure): This substance is not classified as a specific target organ toxin after a single exposure.

SPECIFIC TARGET ORGAN TOXICITY (Repeated or Prolonged Exposure): In 13-week drinking water studies with the supporting chemical, sodium cyanurate in rats and mice, no adverse effects were observed in females; the NOAEL is 2201 and 870 mg/kg-bw/day (highest dose tested) in female rats and mice, respectively. In male mice, calculi in the urinary bladder, hyperplasia of the transitional epithelium and congestion or hemorrhage of the bladder lining were observed at 1994 mg/kg-bw/day; the NOAEL is 522 mg/kg-bw/day. In male rats, hyperplasia of the urinary epithelium was observed at 215 mg/kg-bw/day; the NOAEL is 101 mg/kg-bw/day. The substance is not classified as a specific target organ toxicant upon repeated exposure per GHS criteria.

INHALATION HAZARD: This product is classified as FATAL IF INHALED (Category 2) per GHS criteria. Size of actual cut for the various grades are as listed:
- Regular (R) grade typically ranges <850 microns with 40-80% less than 100 microns and <6% less than 10 microns (limit of respirable particles)
- Granular (G) grade typically ranges 250 - 1400 microns with <0.3% less than 100 microns and <0.06% less than 10 microns (limit of respirable particles)
- Extra Granular (XR) grade typically ranges 425 - 1700 microns with <0.3% less than 100 microns and <0.06% less than 10 microns (limit of respirable particles).

IN-VITRO / IN-VIVO GENOTOXICITY: Not classified as a mutagen per GHS criteria. Negative responses have been observed. Not mutagenic in 5 Salmonella strains and 1 E. coli strain with or without mammalian microsomal activation. The supporting chemical, sodium cyanurate, did not induce gene mutations in vitro or chromosomal aberrations both in vitro and in vivo.

REPRODUCTIVE TOXICITY: Not classified as a reproductive toxin per GHS criteria. In a three-generation drinking water reproductive toxicity study in rats, the supporting chemical, sodium cyanurate, did not adversely affect reproduction; the NOAEL is 614/730 (male/female) mg/kg-bw/day (highest dose tested). In a prenatal developmental toxicity study in rats treated by oral gavage, the supporting chemical, sodium cyanurate, showed no maternal toxicity or developmental toxicity; the NOAEL for maternal and developmental toxicity is 5000 mg/kg-day (highest dose tested). In a similar study in rabbits, no adverse effects were seen in dams; the NOAEL for maternal toxicity is 500 mg/kg-day. Post-implantation losses and hydrocephaly were seen at 500 mg/kg-day; the NOAEL for developmental toxicity is 200 mg/kg-day. TCCA is unstable in the body, particularly the stomach, because the free available chlorine is rapidly reduced. CYA, or its salt, is the stable degradation product. Therefore, CYA, or its sodium salt, is the substance of interest for the reproduction studies. A 3-generation reproductive study using monosodium cyanurate showed no biologically detrimental effect on the reproductive potential of the parents or on the growth and development of the offspring. There are no known or recorded effects on reproductive function or fetal development.

DEVELOPMENTAL TOXICITY: There was no evidence of teratogenicity in the absence of maternal toxicity.

TOXICOKINETICS: Not available.

METABOLISM: Not available.

PATHOGENICITY AND ACUTE INFECTIOUSNESS (ORAL, DERMAL, AND INHALATION): Not applicable.

ENDOCRINE DISRUPTOR: Not available.
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NEUROTOXICITY: No relevant information available.

IMMUNOTOXICITY: No relevant information available.

Hazard Not Otherwise Classified (HNOC)-Health
• Contact with water liberates irritating and hazardous chlorine containing gases
• Damp or wet material may generate hazardous and toxic gases
• Contact with acids liberates toxic gas
• Products exceeding 225 °C (437 °F) will decompose with liberation of toxic gases and possible fire and explosion

OTHER HAZARDS:
• Contact with acids liberates toxic gas
• Reacts in contact with water to evolve nitrogen trichloride, an explosion hazard

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY (EC, IC, and LC):

Fish Toxicity:
LC50 Bluegill sunfish: 0.23 - 0.40 mg/l (96 hr.)
LC50 Rainbow trout: 0.24 - 0.37 mg/l (96 hr.)

Algae Toxicity:
LC50 Green algae: <0.5 mg/L (3 hour)

Invertebrate Toxicity:
LC50 Water flea: 0.17 - 0.80 mg/L (48 hr.)

Other Toxicity:
LD50 Mallard duck (oral): 1,630 mg/kg
LD50 N. Bobwhite Quail (oral): 1,647 mg/kg
LC50 Mallard duck (diet): >10,000 ppm
LC50 N. Bobwhite Quail (diet): >7,422 ppm

FATE AND TRANSPORT:

PERSISTENCE: This material is believed not to persist in the environment. Free available chlorine is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid.

BIODEGRADATION: Chlorinated isocyanurates react with water to form hypochlorous acid and isocyanuric acid. Hypochlorous acid is rapidly destroyed by natural substances present in the water or environment (on the scale of minutes or hours). Isocyanuric acid biodegrades very slowly under aerobic conditions unless; 1) specific fungi or bacteria strains are present, 2) the microorganisms have been acclimated to isocyanuric acid, and 3) organic nutrients are present for the microorganisms.

BIOCONCENTRATION: No bioaccumulation data is available for isocyanuric acid in fish or aquatic organisms, but it is not expected to bioaccumulate due to its low octanol-water partition coefficient (0.67). Isocyanuric acid is eliminated unchanged from the bodies of rats, dogs, and humans.
MOBILITY IN SOIL: The soil partition coefficient is a measure of a compound's tendency to partition to soils and sediments. Isocyanuric acid should be considered highly mobile and not strongly absorbed onto soil.

ADDITIONAL ECOLOGICAL INFORMATION: This product is very toxic to fish and aquatic organisms. This product is very toxic to aquatic life with long lasting effects. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of appropriate regulatory requirements (e.g. permit and the permitting authority has been notified in writing prior to discharge). Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your local or regional regulatory water boards and/or other appropriate regulatory offices.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from material:
Use or reuse if possible. This material is a registered pesticide. May be subject to disposal regulations. Dispose in accordance with all applicable regulations. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. DO NOT transport wet or damp material. Damp material should be allowed to thoroughly dry or be neutralized to a non-oxidizing state. Contact manufacturer for instructions for handling and disposal of damp material. Wastes of this pesticide may cause irreversible eye damage and burns to skin and may be dangerous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

Container Management:
See product label for container disposal information. Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

LAND TRANSPORT

<table>
<thead>
<tr>
<th>U.S. DOT 49 CFR 172.101:</th>
<th>Regulated: Non-bulk packages by ground and air shipments are regulated as oxidizers. Bulk packaging or shipments by vessel are regulated as follows:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status:</td>
<td>Regulated: Non-bulk packages by ground and air shipments are regulated as oxidizers. Bulk packaging or shipments by vessel are regulated as follows:</td>
</tr>
<tr>
<td>UN NUMBER:</td>
<td>UN2468</td>
</tr>
<tr>
<td>PROPER SHIPPING NAME:</td>
<td>Trichloroisocyanuric Acid, Dry, Marine Pollutant</td>
</tr>
<tr>
<td>HAZARD CLASS/ DIVISION:</td>
<td>5.1</td>
</tr>
<tr>
<td>PACKING GROUP:</td>
<td>II</td>
</tr>
<tr>
<td>LABELING REQUIREMENTS:</td>
<td>5.1, Marine Pollutant</td>
</tr>
</tbody>
</table>
ACL® 90 PLUS CHLORINATING COMPOSITION

SDS No.: M31035
Supersedes Date: 2018-06-June
Rev. Date: 04-Sep-2020

MARINE POLLUTANT: Trichloroisocyanuric Acid

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:
Status: Regulated: Non-bulk packages by ground and air shipments are regulated as oxidizers. Bulk packaging or shipments by vessel are regulated as follows:
UN NUMBER: UN2468
SHIPPING NAME: Trichloroisocyanuric Acid, Dry, Marine Pollutant
CLASS OR DIVISION: 5.1
PACKING/RISK GROUP: II
LABELING REQUIREMENTS: 5.1, Marine Pollutant
CAN. MARINE POLLUTANT: Trichloroisocyanuric Acid

MARITIME TRANSPORT (IMO / IMDG)
Status - IMO / IMDG: Shipment by Vessel: Regulated
UN NUMBER: UN2468
PROPER SHIPPING NAME: Trichloroisocyanuric Acid, Dry, Marine Pollutant
HAZARD CLASS / DIVISION: 5.1
Packing Group: II
LABELING REQUIREMENTS: 5.1, Marine Pollutant
MARINE POLLUTANT: Trichloroisocyanuric Acid

AIR TRANSPORT (ICAO / IATA)
Special Instructions CAO: IATA Certificate for shipping personnel is required

SECTION 15. REGULATORY INFORMATION

U.S. REGULATIONS

OSHA REGULATORY STATUS:
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):
Not regulated.

SARA EHS Chemical (40 CFR 355.30)
Not regulated.

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):
Fire Hazard, Reactive Hazard, Acute Health Hazard

SARA HAZARD CATEGORIES ALIGNED WITH GHS (2018):
Physical Hazard - Oxidizer (liquid, solid or gas)
Health Hazard - Acute Toxin (any route of exposure)
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Serious eye damage or eye irritation
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SDS No.: M31035
Supersedes Date: 2018-26-June

EPCRA SECTION 313 (40 CFR 372.65):
Not regulated.

DEPARTMENT OF HOMELAND SECURITY (DHS)- Chemical Facility Anti-Terrorism Standards (6 CFR 27):
No components in this material are regulated under DHS

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):
Not regulated.

<table>
<thead>
<tr>
<th>Component</th>
<th>EPA RMP Toxic or Flammable</th>
<th>PSM - Highly Hazardous Substances, Toxics and Reactives</th>
<th>Flash Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloro-s-triazinetrione</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>&gt;250°C cup</td>
</tr>
<tr>
<td>Cyanuric acid</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>


FIFRA LABELING REQUIREMENTS: This chemical is a pesticide product registered by the United States Environmental Protection Agency (EPA) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
- FIFRA Signal Word - DANGER
- Corrosive
- Causes irreversible eye damage and skin burns
- May be fatal if inhaled
- Harmful if swallowed or absorbed through skin
- Do not get in eyes, on skin, or on clothing
- Do not breathe dust, vapor or spray mist
- Irritating to nose and throat
- This pesticide is toxic to fish and aquatic organisms
- Strong oxidizing agent
- Contact with water slowly liberates irritating and hazardous chlorine containing gases
- Decomposes at temperatures above 437 °F (225°C) with liberation of harmful gases
- When ignited will burn with the evolution of chlorine and equally toxic gases
- NEVER add water to product
- Always add product to large quantities of water
- Use only clean and dry utensils
- DO NOT add this product to any dispensing device containing remnants of any other product
- Such use may cause a violent reaction leading to fire or explosion
- Contamination with moisture, organic material, or other incompatible chemicals may start a reaction with generation of heat, liberation of hazardous gases, and possible fire and explosion

Print date: 04-Sep-2020
ACL® 90 PLUS CHLORINATING COMPOSITION

SDS No.: M31035  Rev. Date: 04-Sep-2020
Supersedes Date: 2018-26-June

NATIONAL INVENTORY STATUS

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA):

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA Inventory</th>
<th>TSCA ACTIVE LIST</th>
<th>TSCA 12(b)</th>
<th>TSCA - Section 4</th>
<th>TSCA - Section 5</th>
<th>TSCA - Section 6</th>
<th>TSCA - Section 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloro-s-triazinetrione</td>
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<td>ACTIVE</td>
<td>Not Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>87-90-1 ( 97 - 99.84 )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyanuric acid</td>
<td>Listed</td>
<td>ACTIVE</td>
<td>Not Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>108-80-5 ( 0.1 - 2.4 )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

TSCA 12(b): This product is not subject to export notification.

CANADIAN CHEMICAL INVENTORY: All components of this product are listed on either the DSL or the NDSL.

<table>
<thead>
<tr>
<th>Component</th>
<th>DSL</th>
<th>NDSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloro-s-triazinetrione</td>
<td>Listed</td>
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</tr>
<tr>
<td>87-90-1 ( 97 - 99.84 )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyanuric acid</td>
<td>Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>108-80-5 ( 0.1 - 2.4 )</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STATE REGULATIONS

California Proposition 65:
This product and its ingredients are not listed on the California Governor’s current list of Carcinogens, Reproductive Toxicants, and/or Candidate Carcinogens (Proposition 65), but it may contain trace amounts of impurities that are listed. For additional information, contact OxyChem Customer Relations.

<table>
<thead>
<tr>
<th>Component</th>
<th>California Proposition 65 Cancer WARNING:</th>
<th>California Proposition 65 CRT List - Male reproductive toxin:</th>
<th>California Proposition 65 CRT List - Female reproductive toxin:</th>
<th>Massachusetts Right to Know Hazardous Substance List</th>
<th>Rhode Island Right to Know Hazardous Substance List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloro-s-triazinetrione</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Listed</td>
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<tr>
<td>Cyanuric acid</td>
<td>Not Listed</td>
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<table>
<thead>
<tr>
<th>Component</th>
<th>New Jersey Right to Know Hazardous Substance List</th>
<th>New Jersey Special Health Hazards Substance List</th>
<th>New Jersey - Environmental Hazardous Substance List</th>
<th>Pennsylvania Right to Know Hazardous Substance List</th>
<th>Pennsylvania Right to Know Special Hazardous Substances</th>
<th>Pennsylvania Right to Know Environmental Hazard List</th>
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<tbody>
<tr>
<td>Trichloro-s-triazinetrione</td>
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<td>Cyanuric acid</td>
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<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

<table>
<thead>
<tr>
<th>Component</th>
<th>Canada - CEPA - Schedule I - List of Toxic Substances</th>
<th>Canada - NPRI</th>
<th>Canada - CEPA - 2010 Greenhouse Gases (GHG) Subject to Mandatory Reporting</th>
<th>CANADIAN CHEMICAL INVENTORY:</th>
<th>NDSL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloro-s-triazinetrione</td>
<td>Not listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
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</tr>
<tr>
<td>87-90-1 ( 97 - 99.84 )</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ACL® 90 PLUS CHLORINATING COMPOSITION

SECTION 16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 04-Sep-2020

Reason for Revision:
- Scheduled review
- Change of company physical address: SEE SECTION 1
- Updated 24 Hour Emergency Telephone Number: SEE SECTION 1
- Added emphasis on Uses Advised Against: SEE SECTION 1
- Emergency Overview was revised: SEE SECTION 2
- Added Hazards Not Otherwise Classified (HNOC): SEE SECTION 2
- GHS symbol removed: SEE SECTION 2
- Modified GHS Hazard and Precautionary Statements: SEE SECTION 2
- Added or revised Hazards Not Otherwise Classified: SEE SECTION 2
- Added Physical Hazards Not Otherwise Classified to format: SEE SECTIONS 5&7
- Added Health Hazards Not Otherwise Classified: Section 2 and 11
- Updated First Aid Measures: SEE SECTION 4
- Modified Fire Fighting Measure Recommendations: SEE SECTION 5
- Revised Accidental Release Measures: SEE SECTION 6
- Revised Handling and Storage Recommendations: SEE SECTION 7
- Revised Exposure Controls/Personal Protection information: SEE SECTION 8
- Updated Physical and Chemical Properties. SEE SECTION 9
- Stability and Reactivity recommendations: SEE SECTION 10
- Toxicological Information has been revised: SEE SECTION 11
- Ecological Information has been modified: SEE SECTION 12
- Updated Disposal Considerations. SEE SECTION 13
- Updated Transportation Information: SEE SECTION 14
- Regulatory Information Changes: SEE SECTION 15

IMPORTANT:
The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Occidental Chemical Corporation assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the
responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any federal, state, local or foreign laws.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees.

End of Safety Data Sheet