

**Product Name:** Tri-Chlor Mini Tabs  
**Date:** 1/29/2016

**SECTION 1 IDENTIFICATION**

**Supplier:** Clearon Corp.  
95 MacCorkle Avenue  
South Charleston, WV 25303  
(304) 720-3671

**Distributor:** AquaFinesse LLC  
3226 Taylorsville Highway  
Statesville, NC 28625  
(513)530-0800

**U.S. PERS Emergency Telephone:** 1-800-633-8253

**Product Name:** **Tri-Chlor Mini Tabs**

**Synonyms:** Trichloroisocyanuric acid; Trichloro-1,3,5-triazine trione; 1,3,5-Trichloro-1-triazine-2,4,6(1H,3H,5H)-trione; Symclosene

**Chemical Name:** Trichloro-S-Triazinetrione

**Chemical Formula:**  $C_3Cl_3N_3O_3$

**CAS Number:** 87-90-1

**SECTION 2 HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**  
**DANGER**



**GHS Classification**

Oxidizing Solids (Category 2)  
Acute Toxicity, Oral (Category 4)  
Skin Irritation (Category 2)  
Eye Irritation (Category 2A)  
Specific Target Organ Toxicity – Single Exposure (Category 3), Respiratory System  
Acute Aquatic Toxicity (Category 1)  
Chronic Aquatic Toxicity (Category 1)

**Hazard Statement(s)**

H272: May intensify fire; oxidizer.  
H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):**

P210: Keep away from heat.  
P220: Keep/Store away from clothing/combustible materials.  
P221: Take any precaution to avoid mixing with other chemicals  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves, eye protection and face protection.

SECTION 2 **HAZARDS IDENTIFICATION - Continued**

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340+P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P370+P378: In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish.

P391: Collect spillage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** Contact with acids liberates toxic gas.

SECTION 3 **COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Number</u>	<u>Percent</u>
Trichloro-S-Triazinetrione	87-90-1	99%

SECTION 4 **FIRST-AID MEASURES**

**Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 **FIRE FIGHTING MEASURES**

**Fire And Explosion Hazards:** Negligible fire hazard. If heated by outside source to temperatures above 240°C (464°F), this product will undergo decomposition with the evolution of noxious gases but no visible flame. Wet material may generate nitrogen trichloride, an explosion hazard.

**Extinguishing Media:** Flood with water. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.

**Fire Fighting:** 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 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 neutralized to a non-oxidizing state.

**SECTION 5 FIRE FIGHTING MEASURES - Continued**

**Sensitivity To Mechanical Impact:** Not sensitive  
**Sensitivity To Static Discharge:** Not sensitive

**Hazardous Combustion Products:** Thermal decomposition or combustion products: chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Occupational Release:** Keep unnecessary people away, isolate hazard area and deny entry. DO NOT add water to spilled materials. 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. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

**SECTION 7 HANDLING AND STORAGE**

**Storage:** Store and handle in accordance with all current regulations and standards. (NFPA Oxidizer Class 1) 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. Product has an indefinite shelf life if stored in original container in a cool, dry place.

**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. 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.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Trichloro-S-Triazinetrione	TWA	Not Established	Not Established	Not Established	Not Established	[1]	[1]
	STEL	Not Established	Not Established	Not Established	Not Established		

**Footnotes:**

1. The TLV for Chlorine is 0.5 ppm (1.5 mg/m<sup>3</sup>) TWA and 1ppm STEL.

SECTION 8

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Limits**

**Chlorinating Composition:** Chlorine and chlorine compounds may be found in slight amounts in the head space of containers.

**Trichloro-S-Triazinetrione:** 0.5 mg/m<sup>3</sup> recommended TWA 8 hour(s) (internal Occupational Exposure Limit)

**Chlorine:** 1 ppm (3 mg/m<sup>3</sup>) OSHA ceiling  
0.5 ppm (1.5 mg/m<sup>3</sup>) OSHA TWA (vacated by 58 FR 35338, June 30, 1993)  
1 ppm (3 mg/m<sup>3</sup>) OSHA STEL (vacated by 58 FR 35338, June 30, 1993)  
0.5 ppm ACGIH TWA  
1 ppm ACGIH STEL

**Biological Limit Values**

**Chlorinating Composition:** No biological limit value(s) available.

**Ventilation:** Use only in well ventilated areas. Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

**Eye Protection:** Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

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

**Gloves:** Wear suitable gloves.

**Protective Material Types:** butyl rubber, natural rubber, neoprene, nitrile, polyvinyl chloride (PVC).

**Respirator:** A NIOSH approved respirator with N95 (dust, fume, mist) filters may be permissible under certain circumstances. The added protection of a full face piece respirator is required when visible dusty conditions are encountered or eye irritation occurs. 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 the use of a respirator.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Solid
<b>Color:</b>	White
<b>Physical Form:</b>	Solid
<b>Odor:</b>	Chlorine Odor
<b>Molecular Weight:</b>	232.4
<b>Molecular Formula:</b>	C <sub>3</sub> N <sub>3</sub> O <sub>3</sub> Cl <sub>3</sub>
<b>Boiling Point:</b>	Not Applicable
<b>Melting Point:</b>	478°F (248°C)
<b>Decomposition Point:</b>	478°F (248°C)
<b>Vapor Pressure:</b>	<0.002 Pa @ 20°C
<b>Vapor Density:</b>	Not Applicable
<b>Specific Gravity:</b>	Not Available
<b>Density:</b>	2.1 G/ML @ 25°C
<b>Bulk Density:</b>	63-66 Lbs/Ft3 (Loose)
<b>Water Solubility:</b>	1.2 Mg/100 G @ 20°C
<b>Ph:</b>	2.9-3.5 @ 25°C (1% Solution)
<b>Volatility:</b>	Not Applicable
<b>Odor Threshold:</b>	Not Available
<b>Evaporation Rate:</b>	Not Applicable
<b>Coefficient Of Water/Oil Distribution:</b>	Not Available

SECTION 10 **STABILITY AND REACTIVITY**

\*Trichloroisocyanuric acid is a powerful oxidizer that is a fire risk in contact with organic materials.

**Reactivity:** Stable at normal temperatures and pressure.

**Conditions To Avoid:** Do not get water inside container. Wet material may generate nitrogen trichloride, an explosion hazard. Avoid contact with easily oxidizable organic material.

**Incompatibilities:** acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds

**Hazardous Decomposition:** Thermal decomposition or combustion products: chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.

**Polymerization:** Will not polymerize.

SECTION 11 **TOXICOLOGICAL INFORMATION**

**Irritation Data**

**Primary Skin Irritation:** Severe Irritation, Corrosive (rabbit, 24 hr);

**Primary Eye Irritation:** Severe Irritation, Corrosive (rabbit, 24 hr)

**TOXICITY DATA:** 809 mg/kg oral-rat LD50; >2000 mg/kg skin-rabbit LD50; >2000 mg/kg skin-rat LD50; 0.09-0.29 mg/L/4 hour(s) inhalation-rat LC50 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.

SECTION 11 **TOXICOLOGICAL INFORMATION - Continued**

**Mutagenic Data:** Not mutagenic in 5 salmonella strains and 1 E. Coli strain with or without mammalian microsomal activation.

**Reproductive Effects Data:** There are no known or recorded effects on reproductive function or fetal development.

**Acute Toxicity Level:** Highly Toxic: inhalation Harmful: ingestion

SECTION 12 **ECOLOGICAL INFORMATION**

**Ecotoxicity Data**

**Fish Toxicity:** This material is believed to be highly toxic to aquatic life. 0.23-0.40 mg/L 96 hour(s) LC50 Bluegill Sunfish; 0.24-0.37 mg/L 96 hour(s) LC50 Rainbow Trout

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

**Algal Toxicity:** <0.5 mg/L 3 hours EC50 Green algae

**Other Toxicity:** 1021-1630 mg/kg oral-Mallard duck LD50; 1638 mg/kg oral-N. Bobwhite Quail LD50; >10,000 ppm diet-Mallard duck LC50; 7422 ppm diet-N. Bobwhite Quail LD50;

**Fate And Transport**

**Biodegradation:** This material is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.

**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.

**Bioconcentration:** Trichloroisocyanuric acid hydrolyzes in water liberating chlorine and cyanuric acid. These products are not bioaccumulative.

**Other Ecological Information:** This pesticide is toxic to fish and aquatic organisms. 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 into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of EPA.

SECTION 13 **DISPOSAL CONSIDERATIONS**

Use or reuse if possible. This material is a registered pesticide. 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. Contact with incompatible materials could cause a reaction and fire. DO NOT transport wet or damp material. Damp material should be neutralized to a non-oxidizing state. See product label for container disposal information. May be subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

SECTION 14 **TRANSPORTATION INFORMATION**



**DOT:** UN Number: 2468  
UN Proper Shipping Name: TRICHLOROISOCYANURIC ACID, DRY  
Transport Hazard Class: 5.1  
Packing Group: II

**TDG:** UN Number: 2468  
UN Proper Shipping Name: TRICHLOROISOCYANURIC ACID, DRY  
Transport Hazard Class: 5.1  
Packing Group: II  
Marine Pollutant: No

**MEX:** UN Number: 2468  
UN Proper Shipping Name: TRICHLOROISOCYANURIC ACID, DRY  
Transport Hazard Class: 5.1  
Packing Group: II  
Marine Pollutant: No

**IMDG:** UN Number: 2468  
Proper Shipping Name: TRICHLOROISOCYANURIC ACID, DRY  
Class: 5.1  
Packing Group: II  
EMS-No: F-A, S-Q  
Marine Pollutant: No

**IATA:** UN Number: 2468  
Proper Shipping Name: TRICHLOROISOCYANURIC ACID, DRY  
Class: 5.1  
Packing group: II

SECTION 15 **REGULATORY INFORMATION**

**U.S. Regulations**

**CERCLA Sections 102a/103 Hazardous Substances (40 CFR 302.4):** Not regulated.

**SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355.30):** Not regulated.

**SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21):**

Acute: Yes  
Chronic: No Fire: Yes Reactive: Yes  
Sudden Release: No

**SARA Title III Section 313 (40 CFR 372.65):** Not regulated.

**OSHA Process Safety (29CFR1910.119):** Not regulated.

**Other U.S. Regulations:** Federal Insecticide, Fungicide and Rodenticide Act (FIFRA): Registered pesticide (40 CFR 152).

SECTION 15	<b>REGULATORY INFORMATION - Continued</b>
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**State Regulations**

**California Proposition 65:** Not regulated.

**New Jersey Worker And Community Right To Know:**

**Reporting Requirement:**

Trichloro-S-Triazinetrione	87-90-1	98-100%
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**Right To Know Hazardous Substance List:**

Trichloro-S-Triazinetrione	87-90-1	98-100%
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**Special Health Hazard Substance List:**

Trichloro-S-Triazinetrione	87-90-1	98-100%
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**Pennsylvania Right To Know:**

**Reporting Requirement:**

Trichloro-S-Triazinetrione	87-90-1	98-100%
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**HAZARDOUS SUBSTANCE LIST:**

Trichloro-S-Triazinetrione	87-90-1	98-100%
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**Environmental Hazardous Substance List:** Not regulated.

**Special Hazardous Substance List:** Not regulated.

**Canadian Regulations:**

**WHMIS Classification:** Material is regulated as a pesticide, therefore is not regulated under WHMIS.

**National Inventory Status:**

**U.S. Inventory (TSCA):** Listed on inventory. TSCA

**12(b) Export Notification:** Not listed.

**Canada Inventory (DSL/NDL):** Listed on DSL.

SECTION 16	<b>OTHER INFORMATION</b>
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**NFPA Ratings (SCALE 0-4):**    Health=2                      Fire=0                      Reactivity=2

**HMIS Ratings (SCALE 0-4):**    Health=3                      Flammability=0                      Reactivity=2

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Date of Issue: 1/29/2016  
Replaces Issue Dated: N/A