SAFETY DATA SHEET

REGAL® POOL CARE SYSTEM CHLORINATED TABLETS 1"

SDS No.: R31036R1 **SDS Revision Date:** 08-May-2015

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured For and

Registered By:

Alliance Trading, Inc.

109 Northpark Boulevard, 4Th Floor

Covington, LA 70433

Supplier Identification:

Occidental Chemical Corporation

5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050

1-800-752-5151

24 Hour Emergency Telephone

Number:

1-800-733-3665 or 1-972-404-3228 (USA); CHEMTREC (within USA and

Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-

3887; CHEMTREC Contract No: CCN16186

Emergency Medical: 1-800-255-3924

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

Product Identifier: REGAL® POOL CARE SYSTEM CHLORINATED TABLETS 1"

Synonyms: Trichloroisocyanuric acid, Trichloro-s-triazinetrione, Symclosene, 1,3,5-Triazine-

2,4,6(1H,3H,5H)-trione,1,3,5-trichloro-, TCCA

Product Use: Sanitizer, Algaecide for pools.

Uses Advised Against: This is a pesticide product, do not use it in a pesticide application that is not

included on its label.

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2. HAZARDS IDENT	'IFICATION	
OSHA REGULATORY STATUS:	This material is considered hazard Standard (29 CFR 1910.1200).	dous by the OSHA Hazard Communication
**********	**********	**************
	EMERGENCY OVERV	/IEW:
Color: Physical State: Appearance: Odor:	White Solid Tablet Slight chlorine odor	
Signal Word:	DANGER	
		YE DAMAGE. CAUSES SEVERE SKIN BURNS VALLOWED. MAY DAMAGE FERTILITY OR
containing gases. Contamination with generation of heat, liberation toxic gas. Decomposes at temper	with moisture, organic material, or coof hazardous gases, and possible futures above 464 °F with liberation	wly liberates irritating and hazardous chlorine other incompatible chemicals may start a reaction fire and explosion. Contact with acids liberates of harmful gases. When ignited will burn with the container. Wet material may generate nitrogen
AQUATIC TOXICITY: Very toxic	to aquatic organisms. Very toxic to	aquatic life with long lasting effects.
protective gloves. Do not breathe	dusts or mists. Use outdoors or in a	on clothing. Wear eye protection, face protection, a well-ventilated area. Wash hands and affected g this product. Do not get water inside container,

ADDITIONAL HAZARD INFORMATION: This material is corrosive. Product has strong buffering capability. Use dilution. May cause burns to moist skin if not promptly removed. There is no specific antidote.

an explosion hazard. Oxidizer, keep separated from incompatible substances.

GHS CLASSIFICATION:

GHS: CONTACT HAZARD - SKIN:	Category 1C - Causes severe skin burns and eye damage.
GHS: CONTACT HAZARD - EYE:	Category 1 - Causes serious eye damage

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GHS: ACUTE TOXICITY -	Category 2 - Fatal if inhaled
INHALATION:	
GHS: ACUTE TOXICITY - ORAL:	Category 4 - Harmful if swallowed.
GHS: ACUTE TOXICITY -	Not acutely toxic by dermal exposure.
DERMAL:	
GHS: TARGET ORGAN	Category 3 - May cause respiratory tract irritation
TOXICITY (SINGLE EXPOSURE):	
GHS: CARCINOGENICITY:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
GHS: REPRODUCTION TOXIN:	Category 1B - May damage fertility or the unborn child
GHS: HAZARDOUS TO AQUATIC	Category 1 - Very toxic to aquatic life
ENVIRONMENT - ACUTE	
HAZARD:	
GHS: HAZARDOUS TO AQUATIC	Category 1 - Very toxic to aquatic life with long lasting effects
ENVIRONMENT - CHRONIC	
HAZARD:	

UNKNOWN ACUTE TOXICITY: Not applicable. 100% of this product consists of ingredient(s) of known acute toxicity.

GHS SYMBOL: Corrosion, Skull and Crossbones, Exclamation mark, Health hazard, Environmental hazard











GHS SIGNAL WORD: DANGER

GHS HAZARD STATEMENTS:

GHS - Health Hazard Statement(s)

Causes severe skin burns and eye damage Causes serious eye damage Fatal if inhaled Harmful if swallowed May cause respiratory irritation May damage fertility or the unborn child

GHS - Environmental Hazard Statement(s)

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

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GHS - Precautionary Statement(s) - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Do not breathe dust, fume, gas, mist, vapors, or spray

In case of inadequate ventilation, wear respiratory protection

Wear protective gloves, protective clothing, eye, and face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Avoid release to the environment

GHS - Precautionary Statement(s) - Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Specific treatment is urgent (see Section 4 of SDS or first aid information on this label)

IF ON SKIN (or hair): Remove/Take off 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

IF exposed or concerned: Get medical advice/attention

Collect spillage

GHS - Precautionary Statement(s) - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

GHS - Precautionary Statement(s) - Disposal

Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

Hazards Not Otherwise Classified (HNOC)

Damp or wet material may generate nitrogen trichloride, an explosion hazard Contact with acids liberates toxic gas

See Section 11: TOXICOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Component	Percent [%]	CAS Number
Trichloro-s-triazinetrione	98 - 100	87-90-1
Impurities	0 - 1.9	AT15610
Boric acid (H3BO3)	< 1	10043-35-3

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4. FIRST AID MEASURES

INHALATION: If inhalation of dust occurs and adverse effects result, remove to uncontaminated area. Evaluate ABC's (is Airway constricted, is Breathing occurring, and is blood Circulating) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote, treat symptomatically.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry and shoes. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse.

EYE CONTACT: Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses, if present, then continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

Most Important Symptoms/Effects (Acute and Delayed) :.

Acute Symptoms/Effects: Listed below.

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, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

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 the internal contents of the eye.

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
- Prolonged and repeated exposure to boric acid is suspected of causing reproductive effects

Interaction with Other Chemicals Which Enhance Toxicity: None known.

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.

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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.

5. FIRE-FIGHTING MEASURES

Fire Hazard: 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 copious amounts of water. Do not use ABC fire extinguishers. 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 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 neutralized to a non-oxidizing state. Contact OxyChem for instructions for handling and disposal of damp material.

Hazardous Combustion Chlorine, Nitrogen, Nitrogen trichloride, Cyanogen chloride, Oxides of carbon,

Products: Phosgene

Sensitivity to Mechanical Not sensitive. Impact:

Sensitivity to Static Discharge: Not sensitive.

Lower Flammability Level (air): Not flammable

Upper Flammability Level (air): Not flammable

Flash point: Not applicable

Auto-ignition Temperature: Not determined

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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.

Methods and Materials for Containment and Cleaning Up:

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 OxyChem for instructions for handling and disposal of damp material.

Environmental Precautions:

This material is very toxic to aquatic life. This material is very toxic to aquatic life with long lasting effects. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

7. HANDLING AND STORAGE

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.

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. 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). Product has an indefinite shelf life if stored in original container in a cool, dry place.

Incompatibilities/ Materials to Avoid:

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s): None. This product does not contain any components that have regulatory occupational exposure limits (OEL's) established.

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

NON-REGULATORY EXPOSURE LIMIT(S): Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

- The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).
- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

OXY REL	0.5 mg/m ³ recommended Time Weighted Average - 8 hour (internal Occupational
8 hr TWA	Exposure Limit)

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. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear safety glasses with side-shields. Wear chemical safety goggles with a face-shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash 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®

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolidAppearance:TabletColor:White

Odor: Slight chlorine odor Odor Threshold [ppm]: Not Available.

Molecular Weight: 232.4 C3N303CI3 Molecular Formula: **Decomposition Temperature:** 477 °F (247 °C) **Boiling Point/Range:** Not applicable Freezing Point/Range: Not applicable. Melting Point/Range: 477 °F (247 °C) Vapor Pressure: <0.002 Pa @ 20 °C Vapor Density (air=1): Not applicable

Relative Density/Specific Gravity No data available

(water=1):

 Density:
 2.1 g/mL @ 25 °C

 Bulk Density:
 63 - 66 lbs/ft3 (loose)

 Water Solubility:
 0.98 mg/100 g @ 20 °C

pH: 2.9 - 3.5 @ 25 °C (1% solution)

Volatility: Not applicable Evaporation Rate (ether=1): Not applicable Partition Coefficient (n- Log Kow = 0.94

octanol/water):

Flash point:

Flammability (solid, gas):

Lower Flammability Level (air):

Upper Flammability Level (air):

Auto-ignition Temperature:

Viscosity:

Not applicable

Not flammable

Not flammable

Not determined

Not applicable

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10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal temperatures and pressures.

Chemical Stability: Stable at 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.

Conditions to Avoid:

(e.g., static discharge, shock, or vibration) -. None known.

Incompatibilities/ Materials to Avoid:

acids. ammonia. bases. floor sweeping compounds. calcium hypochlorite. reducing agents. organic solvents and compounds.

Hazardous Decomposition Products: chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene

Hazardous Polymerization: Will not occur.

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:

PRODUCT TOXICITY DATA: ACL® 90 T CHLORINATING TABLETS

LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
809 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>0.09 - <0.29 mg/L (4-hr Rat)

COMPONENT TOXICITY DATA:

Note: The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Trichloro-s-triazinetrione 87-90-1	406 mg/kg (Rat)	2000 mg/kg (Rabbit)	50 mg/L (1 hr-Rat)
Boric acid (H3BO3) 10043-35-3	2660 mg/kg (Rat)	2000 mg/kg (Rabbit)	0.16 mg/L (4 hr-Rat)

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POTENTIAL HEALTH EFFECTS:

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 contents of eye.

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, laryngeospasm 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 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. Based on animal studies, exposure to high concentrations of boric acid may affect the reproductive system. Based on animal studies, exposure to concentrations of sodium bromide may

cause reversible effects to the reproductive system.

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, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

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 the internal contents of the eye.

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.

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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.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

GHS HEALTH HAZARDS:

GHS: ACUTE TOXICITY - ORAL: Category 4 - Harmful if swallowed.

GHS: ACUTE TOXICITY - Not acutely toxic by dermal exposure.

DERMAL:

GHS: ACUTE TOXICITY - Category 2 - Fatal if inhaled.

INHALATION:

GHS: CONTACT HAZARD - Category 1C - Causes severe skin burns and eye damage

SKIN:

GHS: CONTACT HAZARD - EYE: Category 1 - Causes serious eye damage

GHS: CARCINOGENICITY:

This product is not classified as a carcinogen by NTP, IARC or OSHA.

Component	NTP:	IARC (GROUP 1):	IARC (GROUP 2):	OSHA:
Boric acid (H3BO3)	Not listed	Not listed	Group 2	Listed

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):

Category 3 - Respiratory Tract Irritation

MUTAGENIC DATA:

Not classified as a mutagen per GHS criteria. Not mutagenic in 5 Salmonella strains and 1 E. coli strain with or without mammalian microsomal activation.

REPRODUCTIVE TOXICITY:

Category 1B - May damage fertility or the unborn child. When animals where fed high concentrations, boric acid reduced litter size in rodent studies, caused testicular atrophy in dogs, and induced congenital malformations in rats and rabbits. SODIUM BROMIDE: A 7-month diet rat study with sodium bromide, followed with a 3-month control diet in the reversibility group, showed complete infertility at the highest dose. No treatment-related effects were observed in reproductive performance, viability and bodyweight of the offspring in the second and third generations. Results of the reversibility group showed clearly that the effects of sodium bromide on reproduction are reversible.

OTHER HAZARDS:

Contact with acids liberates toxic gas.

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12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Fish Toxicity:

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

Invertebrate Toxicity:

LC50 Water flea: 0.17-0.80 mg/L (48 hour)

Algae Toxicity:

LC50 Green algae: <0.5 mg/l (3 hr.)

Other Toxicity:

LD50 Mallard duck (oral): 1021 - 1631 mg/kg LD50 N. Bobwhite Quail (oral): 1638 mg/kg LD50 Mallard duck (diet): >10,000 ppm LD50 N. Bobwhite Quail (diet): >7422 ppm

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: This material hydrolyses in water liberating free available chlorine and cyanuric acid. These products are not bioaccumulative.

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.

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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 neutralized to a non-oxidizing state. Contact OxyChem for instructions for handling and disposal of damp material.

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.

14. TRANSPORT INFORMATION

LAND TRANSPORT

U.S. DOT 49 CFR 172.101:

Status: Regulated. For ground or air shipments only, non-bulk packages are regulated as oxidizers. Bulk Packaging or Shipment by Vessel: Regulated as follows:.

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

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

Status: Regulated. For ground or air shipments only, non-bulk packages are regulated as oxidizers. Bulk Packaging or Shipment by Vessel: Regulated as follows:.

UN NUMBER: UN2468

SHIPPING NAME: Trichloroisocyanuric Acid, Dry, Marine Pollutant

CLASS OR DIVISION: 5.1
PACKING/RISK GROUP: ||

LABELING REQUIREMENTS: 5.1, Marine Pollutant CAN. MARINE POLLUTANT: Trichloroisocyanuric Acid

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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:

LABELING REQUIREMENTS: 5.1, Marine Pollutant

MARINE POLLUTANT: Trichloroisocyanuric Acid

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

EPCRA SECTION 313 (40 CFR 372.65):

Not regulated.

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):

Not regulated

<u>FIFRA REGULATIONS:</u> Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), EPA Reg. No. 42177-17

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<u>FIFRA LABELING REQUIREMENTS:</u> - 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
- 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

NATIONAL INVENTORY STATUS

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

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.

STATE REGULATIONS

California Proposition 65:

This product and its ingredients are not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. For additional information, contact OxyChem Technical Services at 1-800-733-1165.

Component	Proposition 65 Cancer	Proposition 65 CRT List - Male reproductive	Proposition 65 CRT List - Female	Right to Know Hazardous	Hazardous	New Jersey Special Health Hazards Substance List
Trichloro-s- triazinetrione 87-90-1	Not Listed	Not Listed	Not Listed	Listed	1892	Not Listed
Boric acid (H3BO3) 10043-35-3	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

SDS No.: R31036R1 **SDS Revision Date:** 08-May-2015

	Environmental	to Know Hazardous Substance List	to Know Special Hazardous	to Know	Rhode Island Right to Know Hazardous Substance List
Trichloro-s-triazinetrione 87-90-1	Not Listed	Listed	Not Listed	Not Listed	Listed
Boric acid (H3BO3) 10043-35-3	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

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

WHMIS - Classifications of Substances:

• Material is regulated as a pesticide, therefore is not regulated under WHMIS

16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: Not Revised

HMIS: (SCALE 0-4) (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

Health Rating: 3 Flammability Rating: 0 Reactivity Rating: 2

NFPA 704 - Hazard Identification Ratings (SCALE 0-4)

Health Rating: 2 Flammability: 0 Reactivity Rating: 2

SDS No.: R31036R1 SDS Revision Date: 08-May-2015

Reason for Revision:

- Changed the SDS format to meet the GHS requirements of the revised 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Updated the (M)SDS header
- Product Identifier has been added or updated: SEE SECTION 1
- Updated Uses Advised Against information: SEE SECTION 1
- Revised Hazard(s) Identification information: SEE SECTION 2
- Emergency Overview was revised: SEE SECTION 2
- Added GHS Information: SEE SECTION 2
- Updated First Aid Measures: SEE SECTION 4
- Updated 24 Hour Emergency Telephone Number: SEE SECTION 1
- Modified Fire Fighting Measure Recommendations: SEE SECTION 5
- Revised Accidental Release Measures: SEE SECTION 6
- Revised Handling and Storage Recommendations: SEE SECTION 7
- Physical State information has been revised: SEE SECTIONS 2 and 9
- Stability and Reactivity recommendations: SEE SECTION 10
- Toxicological Information has been revised: SEE SECTION 11
- Updated Disposal Considerations. SEE SECTION 13
- Updated FIFRA Regulations: SEE SECTION 15
- Added SDS Revision Date: SEE SECTION 16

IMPORTANT:

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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