SAFETY DATA SHEET

M44626 - ANSI - EN





ACL® 90 DISINFECTING TABLETS

SDS No.: M44626 **SDS Revision Date**: 02-Mar-2017

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company 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); 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 DISINFECTING TABLETS

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: Algaecide, Microbiocide/Microbiostat, Disinfectant, Sanitizer, Bactericide,

Fungicide

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

included on its label

Note: Not registered as a pesticide in Canada. DO NOT SELL FOR PESTICIDE USES

IN CANADA.

Additional Information: Re-packers or formulators are responsible for obtaining and maintaining all

required and applicable registrations of their products: (EPA, PMRA, BPD/BPR,

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 Solid Appearance: Tablet So	SDS No.: M44626 Supersedes Date: 2016-	15-November	SDS Revision Date: 02-Mar-2017
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: Tablet Odor: Slight chlorine odor Signal Word: DANGER. MAJOR HEALTH HAZARDS: CORROSIVE. CAUSES SERIOUS EYE DAMAGE. CAUSES SEVERE SKIN BURN AND EYE DAMAGE. FATAL IF INHALED. HARMFUL IF SWALLOWED. CHRONIC ORAL EXPOSURE TO HIGH CONCENTRATIONS OF BORIC ACID MAY DAMAGE FERTILITY OR THE UNBORN CHILD. PHYSICAL HAZARDS: OXIDIZING AGENT. Contact with water slowly liberates irritating and hazardous chlorine containing gases. Contamination with moisture, organic material, or other incompatible chemicals may start a reactivit generation of heat, liberation of hazardous gases, and possible fire and explosion. Contact with acids liberates toxic gas. Decomposes at temperatures above 464 °F with liberation of harmful gases. When ignited will burn with the evolution of chlorine and equally toxic gases. Do not get water inside container. Wet material may generate nitroger trichloride, an explosion hazard. AQUATIC TOXICITY: Very toxic to aquatic organisms. Very toxic to aquatic life with long lasting effects. PRECAUTIONARY STATEMENTS: Obtain special instructions before use. Do not handle until all safety precaution have been read and understood. Keep away from heat. Keep away from combustible materials. Do not get water inside container, an explosion hazard. Take any precaution to avoid mixing with combustibles, acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds. Use or outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Do not breathe dust. Wear protective gloves, protective clothing, eye, and face protection. Do not eat, drink or smoke when using the product. Wash skin and contaminated clothing thoroughly after handling. Avoid release to the environment.		state, etc.).	
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ADDITIONAL HAZARD INFORMATION: This material is corrosive. May cause burns to moist skin if not promptly	have been read and under inside container, an explos bases, floor sweeping com outdoors or in a well-ventile dust. Wear protective glove	stood. Keep away from heat. Ke sion hazard. Take any precautio apounds, calcium hypochlorite, r ated area. In case of inadequate es, protective clothing, eye, and	eep away from combustible materials. Do not get water on to avoid mixing with combustibles, acids, ammonia, reducing agents, organic solvents and compounds. Use only e ventilation wear respiratory protection. Do not breathed face protection. Do not eat, drink or smoke when using this
removed. Product has strong buffering capability. Use dilution. There is no specific antidote.			
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GHS CLASSIFICATION:	GHS CLASSIFICATION	l:	

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GHS: PHYSICAL HAZARDS:	Oxidizing Solid - Cat. 2
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
GHS: REPRODUCTION TOXIN:	Category 1B - May damage fertility or the unborn child [Chronic Oral Exposure to High Concentrations of Boric Acid]
HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE HAZARD:	Category 1 - Very toxic to aquatic life
HAZARDOUS TO AQUATIC ENVIRONMENT -	Category 1 - Very toxic to aquatic life with long lasting
CHRONIC HAZARD:	effects
GHS: SUPPLEMENTAL HAZARD:	Contact with acids liberates toxic gas
	Reacts in contact with water to evolve nitrogen
	trichloride, an explosion hazard

UNKNOWN ACUTE TOXICITY: Not applicable. This product was tested as a whole. This information only pertains to untested mixtures.

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



GHS SIGNAL WORD: DANGER

GHS HAZARD STATEMENTS:

GHS - Physical Hazard Statement(s)

· May intensify fire; oxidizer

GHS - Health Hazard Statement(s)

- Causes serious eye damage
- · Causes severe skin burns and eye damage
- Harmful if swallowed
- Fatal if inhaled
- · May damage fertility of the unborn child if ingested

GHS - Environmental Hazard Statement(s)

Very toxic to aquatic life with long lasting effects

GHS - Precautionary Statement(s) - Prevention

• Obtain special instructions before use

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- Do not handle until all safety precautions have been read and understood
- · Keep away from heat
- · Keep away from combustible materials
- Take any precaution to avoid mixing with combustibles, acids, ammonia, bases, floor sweeping compounds, calcium hypochlorite, reducing agents, organic solvents and compounds
- · Use only outdoors or in a well-ventilated area
- In case of inadequate ventilation, wear respiratory protection
- · Do not breathe dust
- · Wear protective gloves, protective clothing, eye, and face protection
- Do not eat, drink or smoke when using this product
- · Wash skin and contaminated clothing thoroughly after handling
- Avoid release to the environment

GHS - Precautionary Statement(s) - Response

- IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water
- IF EXPOSED: Immediately call a POISON CENTER OR PHYSICIAN
- · 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
- Immediately call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF INHALED: Immediately call a POISON CENTER or physician
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth if ingested
- Do NOT induce vomiting
- IF exposed or concerned: Get medical advice/attention
- 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
- · Absorb spillage to prevent material damage
- 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

Hazards Not Otherwise Classified (HNOC)

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

Physical Hazards Not Otherwise Classified

- Reacts in contact with water to evolve nitrogen trichloride, an explosion hazard
- · Contact with acids liberates toxic gas

See Section 11: TOXICOLOGICAL INFORMATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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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
Boric acid (H3BO3)	<1	10043-35-3

SECTION 4. FIRST AID MEASURES

INHALATION: IF INHALED: Remove victim 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. 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.

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 oral exposure to high concentrations of 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

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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.

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.

SECTION 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 Products:

Chlorine Nitrogen Nitrogen trichloride Cyanogen chloride Oxides of carbon Phosgene

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Lower Flammability Level (air): Not flammable

Upper Flammability Level (air): Not flammable

Not applicable Flash point:

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Auto-ignition Temperature: Not determined

GHS: PHYSICAL HAZARDS: - Oxidizing Solid - Cat. 2

Physical Hazards Not Otherwise Classified

- Reacts in contact with water to evolve nitrogen trichloride, an explosion hazard
- Contact with acids liberates toxic gas

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.

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.

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.

Additional Disaster Prevention Measures:

SECTION 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. Keep away from heat, sparks, flame and other sources of ignition.

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.

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Incompatibilities/ Materials to Avoid:

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

GHS: PHYSICAL HAZARDS:

- Oxidizing Solid - Cat. 2

Physical Hazards Not Otherwise Classified

- Reacts in contact with water to evolve nitrogen trichloride, an explosion hazard
- Contact with acids liberates toxic gas

SECTION 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 are the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

Component	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Boric acid (H3BO3)	2 mg/m ³	6 mg/m ³				

⁻ 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).

Recommended Exposure Limits (REL's) are non-regulatory occupational exposure limits that the manufacturer has established based on health effects data

Component	OXY REL	OXY REL	OXY REL
	8 hr TWA	STEL	Ceiling
Trichloro-s-triazinetrione 87-90-1 (98 - 100)	0.5 mg/m ³		

Additional Advice:

1. 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

⁻ 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.

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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®

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

Physical State: Solid Appearance: Tablet Color: White

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

Molecular Weight: 232.4 Molecular Formula: C3N303CI3 477 °F (247 °C) **Decomposition Temperature:** Boiling Point/Range: Not applicable Not applicable. Freezing Point/Range: 477 °F (247 °C) Melting Point/Range: <0.002 Pa @ 20 °C **Vapor Pressure:** 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) 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 Log Kow = 0.94

(n-octanol/water):

Flash point: Not applicable

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Flammability (solid, gas):

Lower Flammability Level (air):

Upper Flammability Level (air):

Auto-ignition Temperature:

Viscosity:

Not flammable
Not flammable
Not determined
Not applicable

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.

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.

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:

PRODUCT TOXICITY DATA: ACL® 90 DISINFECTING TABLETS

	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
8	309 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.

Γ	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, 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 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, oral exposure to high concentrations of boric acid may affect 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, laryngospasm 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 - INHALATION: Category 2 - Fatal if inhaled.

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

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

Skin Absorbent / Dermal Route? No.

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 were fed high concentrations of boric acid, there was a reduction in litter size in rodent studies, testicular atrophy in dogs, and congenital malformations in rats and rabbits.

OTHER HAZARDS:

Contact with acids liberates toxic gas.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Component	Freshwater Fish	<u>Invertebrate</u>	Algae Toxicity:	Other Toxicity:
		Toxicity:		
Trichloro-s-triazinetrione	,		LC50 Green algae: <0.5 mg/L (3 hour)	LD50 Mallard duck (oral): 1021 - 1631 mg/kg LD50 N. Bobwhite Quail (oral): 1638
				mg/kg

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				LD50 Mallard duck (diet): >10,000 ppm LD50 N. Bobwhite Quail (diet): >7422
				ppm
Boric acid (H3BO3)	No data available	115 - 153 mg/L EC50	No data available	No data available

Invertebrate Toxicity:

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

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. 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 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.

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SECTION 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:

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

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

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)

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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

Health Hazard - Acute Toxin

Health Hazard - Reproductive Toxin

Health Hazard - Skin Corrosive / Irritant

Health Hazard - Eye Corrosive / Irritant

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. 935-40 (ACL® 90 Disinfecting Tablets)

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 swallowed
- Harmful if absorbed through skin or inhaled
- 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 464 $^{\circ}\text{F}$ (225 $^{\circ}\text{C}$) with liberation of harmful gases 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

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NATIONAL INVENTORY STATUS

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

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.

Component	DSL	NDSL
Trichloro-s-triazinetrione 87-90-1	Listed	Not Listed
Boric acid (H3BO3) 10043-35-3	Listed	Not Listed

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.

Compension	California Proposition 65 Cancer WARNING:		Proposition 65 CRT List - Female	Right to Know Hazardous	Hazardous	New Jersey Special Health Hazards Substance List
Trichloro-s-triazinetrio	Not Listed	Not Listed	Not Listed	Listed	1892	Not Listed
ne						
87-90-1						
Boric acid (H3BO3) 10043-35-3	Not Listed	Not Listed	Not Listed	Not Listed	0240	Not Listed

Component	Environmental	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

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

Component	Canadian Chemical Inventory:		WHMIS - Classifications of Substances:
Trichloro-s-triazinetrione	Listed	Not Listed	C,D1B,D2B
Boric acid (H3BO3)	Listed		D2A

PCP Registration:

- This product cannot be sold into Canada as a pesticide

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SECTION 16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 02-Mar-2017

Reason for Revision:

· Clarification of reproduction toxicity: SEE SECTIONS 2, 4, 11

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