

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

USA: 1-703-527-3887)
1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

USA: 1-423-780-2970)

1-800-424-9300 (OUTSIDE

PRODUCT NAME: POOLIFE EXCLUSIVE POOL CARE COLLECTION MULTIPURPOSE 3" CLEANING TABLETS STABILIZED CHLORINATOR

EPA Registration Number: 1258-922

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204 REVISION DATE: 01/10/2013 SUPERCEDES: 09/27/2010

MSDS Number: 000000001216

SYNONYMS: Trichloroisocyanuric Acid, TCCA,

Trichlor

CHEMICAL FAMILY: Chloroisocyanurates
DESCRIPTION / USE swimming pool sanitizer

FORMULA: (CINCO)3

2. HAZARDS IDENTIFICATION

OSHA Hazard Corrosive to eyes and skin, Lung toxin, Toxic by ingestion, Toxic by

Classification: inhalation (dust)., Oxidizer

Routes of Entry: Inhalation, skin, eyes, ingestion
Chemical Interactions: No known or reported interactions.

Medical Conditions Aggravated: Asthma, respiratory and cardiovascular disease

Human Threshold Response Data

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

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<u>Hazardous Materials Identification System / National Fire Protection Association Classifications</u>

Hazard Ratings:	<u>Health</u>	<u>Flammability</u>	Physical / Instability	PPI / Special hazard.
HMIS	3	0	2	
NFPA	2	0	2	Oxidizer

Immediate (Acute) Health Effects

Skin Toxicity:

Inhalation Toxicity: This product in the form of solid tablets is not an inhalation hazard.

However, if dust is created and inhaled, inhalation of this material in dust or vapor form is irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations

can result in permanent lung damage. Toxic by inhalation (dust).
DRY MATERIAL CAUSES MODERATE SKIN IRRITATION. WET

MATERIAL CAUSES SKIN BURNS. Dermal exposure to dry material causes moderate skin irritation characterized by redness and swelling. Dermal exposure to wet material can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged

skin exposure may cause permanent damage.

Eye Toxicity: CAUSES BURNS TO EYES. Severe irritation and/or burns can occur

following eye exposure. Direct contact may cause impairment of vision

and corneal damage.

Ingestion Toxicity: Toxic if swallowed. CAUSES BURNS TO DIGESTIVE TRACT. Irritation

and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration. Ingestion may cause severe damage to the gastrointestinal tract with the potential to cause

perforation.

Acute Target Organ Toxicity: This product is corrosive to all tissues contacted and upon inhalation,

may cause irritation to mucous membranes and respiratory tract., The dry material is irritating to the skin. However when wet, it will produce

burns to the skin.

Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any

reference source including IARC, OSHA, NTP or EPA.

Reproductive and

Inhalation:

Developmental Toxicity:

Not known or reported to cause reproductive or developmental toxicity.

There are no known or reported effects from chronic exposure except for

effects similar to those experienced from acute exposure.

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Skin Contact: Effects similar to those from acute exposure. In addition, chronic

exposure to wet material may cause effects secondary to tissue

destruction.

Ingestion: There are no known or reported effects from chronic ingestion except for

effects similar to those experienced from single exposure. The acute corrosivity of this product, makes chronic ingestion of significant

amounts unlikely.

Sensitization: This material tested negative for skin sensitization in animals.

Chronic Target Organ Toxicity: There are no known or reported target organ effects from chronic

exposure., Toxicological investigation indicates it does not produce

significant effects from chronic exposure.

Supplemental Health Hazard

Information:

No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME CAS # % RANGE

TRICHLORO-S-TRIAZINETRIONE 87-90-1 96 - 100

4. FIRST AID MEASURES

General Advice: Call a poison control center or doctor for treatment advice. For 24-hour

emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a

poison control center or doctor, or going for treatment.

Inhalation: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice.

Skin Contact: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin

immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Eye Contact: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5 minutes, then

continue rinsing eye. Call a poison control center or doctor for treatment advice. IF SWALLOWED: Call a poison control center or doctor immediately for treatment

Ingestion: IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce

vomiting unless told to do so by a poison control center or doctor. Do not give

anything by mouth to an unconscious person.

Notes to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

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5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible or pyrophoric.,

NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1

Oxidizer

Flammable Properties

Flash Point: Not applicable Autoignition Temperature: Not applicable

Fire / Explosion Hazards: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion. Closed containers may explode (due to the build up of steam pressure) when exposed to

extreme heat.

Extinguishing Media: Water only.

Fire Fighting Instructions: Use water to cool containers exposed to fire. On small fires, use

water spray or fog. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished. Do not use dry extinguishers containing

ammonium compounds.

Upper Flammable / Explosive Limit, % in air: Not applicable Lower Flammable / Explosive Limit, % in air: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations:

Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air repirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment.Compatible materials for response to this material are: neoprene.Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Spill Mitigation Procedures

Air Release: Vapors may be suppressed by the use of water fog.

Water Release: This material is heavier than water. This material is soluble in water.

Stop water flow or divert water flow around spill if possible and safe

to do so. Begin monitoring for available chlorine and pH

immediately.

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Land Release: Do not contaminate spill material with any organic materials,

ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.

Additional Spill Information : FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-

800-424-9300 REPORTABLE QUANTITY: Not Applicable (Per 40 CFR 302.4) Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur. If material is wet, contact 1-800-654-6911 for proper stabilization procedures. Dispose of spill residues per guidelines under Section 13, Disposal Consideration. This material may be neutralized for disposal; you are requested to contact Arch Chemicals at 1-800-

654-6911 before beginning any such procedure.

7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing.

Upon contact with skin or eyes, wash off with water. Avoid breathing

dust, mist, vapor or gas.

Storage: Store in a cool dry ventilated location, away from sources of ignition

or other incompatible conditions and chemicals. Keep container(s)

closed. Avoid creating dusts.

Shelf Life Limitations: Indefinite. Available chlorine loss can be as little as 0.1% per year at

ambient temperatures.

Incompatible Materials for Storage: organic materials Reducing agents nitrogen containing materials

oxidizers acids Bases (Incompatible materials for packaging: paper,

cardboard)

Do Not Store At temperatures Above: 60 DEG°C / 140 DEG°F

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

possible.

Respirator Type: A NIOSH approved full-face air purifying respirator equipped with

combination chlorine/P100 cartridges. Air purifying respirators should not be

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used in oxygen deficient or IDLH atmospheres or if exposure concentrations

exceed ten (10) times the published limit.

Skin Protection: Wear impervious gloves to avoid skin contact. A full impervious suit is

recommended if exposure is possible to a large portion of the body.

Eye Protection: Use chemical goggles.

Protective Clothing Type: Nitrile, Natural rubber, Neoprene (This includes: gloves, boots, apron,

protective suit)

General Protective An eye wash and safety shower should be provided in the immediate work

Measures: area

Exposure Limit Data

<u>CHEMICAL NAME</u>

TRICHLORO-S-TRIAZINETRIONE

CAS # Name of Limit Exposure

ARCH-ROEG*

0.5 mg/m3 TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid Form Tablet Color: white

Odor: Sharp, chlorine-like, bleach odor

Molecular Weight: 232.41

Specific Gravity: >1 (@ 20 Deg. C)

pH: 2.7 - 3.2

Not applicable Boiling Point: Freezing Point: Not applicable Melting Point: Not applicable Density: 1.16 - 1.9g/cc Vapor Pressure: Not available Vapor Density: Not applicable Viscosity: Not applicable Fat Solubility: No data

Solubility in Water: 1.2 % (@ 25 Deg. C)

Partition coefficient n-

octanol/water:

Not available.

Evaporation Rate:

Oxidizing:

Volatiles, % by vol.:

VOC Content

Not applicable

Oxidizer

Not applicable

Not applicable

HAP Content Not applicable

10. STABILITY AND REACTIVITY

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^{*}ARCH-ROEG: Arch Recommended Occupational Exposure Guideline.



Stability and Reactivity Summary: May be unstable at temperatures above 225 Deg. C (437 Deg. F)

Not sensitive to mechanical shock. Not sensitive to static discharge. Product will not undergo hazardous polymerization.

Product is an oxidizer.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated

temperatures., Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes., Damp or slightly wet product (will evolve nitrogen trichloride), May be

unstable at temperatures above 225 Deg. C (437 Deg. F) organic materials, Oils, Grease, Sawdust, Reducing agents,

nitrogen-containing compounds, oxidizers, acids, Bases, Dry fire extinguishers containing ammonium compounds

Hazardous Decomposition Products: Nitrogen trichloride, Chlorine, nitrous oxides, cyanates, Carbon

monoxide, Carbon dioxide

Decomposition Temperature: 225 DEG°C - , 437 DEG°F-

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Chemical Incompatibility:

Oral LD50 value:

TRICHLORO-S- LD50 = 490 mg/kg Rat

TRIAZINETRIONE

Component Animal Toxicology

Dermal LD50 value:

TRICHLORO-S- LD50 > 2,000 mg/kg Rabbit

TRIAZINETRIONE

Component Animal Toxicology

Inhalation LC50 value:

TRICHLORO-S- LC50 1 h (aerosol dust), (Nose Only) Approximately 2.16 MG/L Rat

TRIAZINETRIONE

TRICHLORO-S- LC50 4 h (aerosol dust), (Nose Only) Approximately 0.54 MG/L Rat

TRIAZINETRIONE

Product Animal Toxicity

<u>Oral LD50 value</u>: LD50 490 mg/kg Rat Dermal LD50 value: LD50 > 2,000 mg/kg Rabbit

Inhalation LC50 LC50 4 h (aerosol dust), (Nose Only) Approximately 0.54 MG/L Rat LC50 1 h

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value: (aerosol dust), (Nose Only) Approximately 2.16 MG/L Rat

Skin Irritation: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL

CAUSES SKIN BURNS.

Eye Irritation: Corrosive to eyes.

Skin Sensitization: Negative skin sensitizer, guinea pig - Buehler Method

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause

irritation to mucous membranes and respiratory tract. The dry material is irritating to

the skin. However when wet, it will produce burns to the skin.

Subchronic / Chronic

Toxicity:

There are no known or reported effects from repeated exposure., Toxicological

investigation indicates it does not produce significant effects from chronic

exposure.

Reproductive and Not known or reported to cause reproductive or developmental toxicity.

Developmental Toxicity:

TRICHLORO-S-TRIAZINETRIONE Not known or reported to cause reproductive or

developmental toxicity. A similar product has been tested and it did not produce teratogenic or fetotoxic

effects in laboratory animals.

Mutagenicity: This product was determined to be non-mutagenic in the Ames assay.

TRICHLORO-S-TRIAZINETRIONE This product was determined to be non-mutagenic in

the Ames assay.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

TRICHLORO-S-TRIAZINETRIONE This chemical is not known or reported to be

carcinogenic by any reference source including IARC,

OSHA, NTP, or EPA.

12. ECOLOGICAL INFORMATION

Overview: Highly toxic to fish and other aquatic organisms.

Ecological Toxicity Values - Product:

Rainbow trout (Salmo gairdneri), - 96 h LC50 0.32 mg/l
Bluegill sunfish - 96 h LC50 0.30 mg/l
Daphnia magna, - 48 h LC50 0.21 mg/l

Mallard duck - 8 DAYS Dietary LC50 > 10,000 ppm

Mallard duck - Acute Oral LD50 1,600 mg/kg
Bobwhite quail - 8 DAYS Dietary LC50 7,422 ppm

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Ecological Toxicity Values for: TRICHLORO-S-TRIAZINETRIONE

Rainbow trout (Salmo gairdneri), - 96 h LC50 0.32 mg/l Bluegill sunfish - 96 h LC50 0.30 mg/l

Daphnia magna, - 48 h LC50 0.21 mg/l Mallard duck - 8 DAYS Dietary LC50 > 10,000 ppm

Mallard duck - Acute Oral LD50 1,600 mg/kg
Bobwhite quail - 8 DAYS Dietary LC50 7,422 ppm

13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it meets the criteria of a hazardous

waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal restrictions under 40 CFR 268 and must be managed

accordingly.

Disposal Methods:

As a hazardous solid waste, it must be disposed of in accordance

with local, state and federal regulations.

Potential US EPA Waste Codes: D001

14. TRANSPORT INFORMATION

Land (US DOT): UN2468 TRICHLOROISOCYANURIC ACID DRY 5.1 II

Water (IMDG): UN2468 TRICHLOROISOCYANURIC ACID DRY, 5.1 II MARINE

POLLUTANT

Flash Point: Not applicable

Air (IATA): UN2468 TRICHLOROISOCYANURIC ACID DRY, 5.1 II

Emergency Response Guide Number: ERG # 140

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Transportation Notes: Material is not regulated as a marine pollutant for ground

transportation within the US if shipped in non-bulk packages.

EMS: F-A, S-Q

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.

EPA Pesticide Registration Number: 1258-922

FIFRA Listing of Pesticide Chemicals

(40 CFR 180):

This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes

consistent with its labeling.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard

Physical Fire Hazard

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS SAR302 TPQ (threshold planning None established

quantity)

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA Reportable quantity None established ZUS_SAR302 Reportable quantity None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313 De minimis concentration None established

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

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CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112: ZUS_CAAHAP None established

ZUS CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS#	COMPONENT NAME
87-90-1	TRICHLORO-S-TRIAZINETRIONE

ZUSPA_RTK

Pennsylvania: Hazardous substance list

1989-08-11

1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRICHLORO-

New Jersey:

CAS#	COMPONENT NAME
87-90-1	TRICHLORO-S-TRIAZINETRIONE

ZUSNJ_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

TRICHLOROISOCYANURIC ACID SYMCLOSENE 1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-

TRIONE, 1,3,5-TRICHLORO-

Special Health Hazard - Reactive - Second Degree

Massachusetts:

CAS #	COMPONENT NAME
87-90-1	TRICHLORO-S-TRIAZINETRIONE

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

TRICHLORO-S-TRIAZINETRIONE

California Proposition 65:

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ZUSCA_P65 None established

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight percent

148

Trichloroisocyanuric acid

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight percent

67

Boric acid

16. OTHER INFORMATION

MSDS REVISION STATUS :

SECTIONS REVISED:

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

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