

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

### PRODUCT NAME: HTH® ULTRA 3" CHLORINATING TABLETS EPA Registration Number: 1258-1341

# **1. PRODUCT AND COMPANY IDENTIFICATION**

| Arch Chemicals, Inc.<br>501 Merritt 7 PO Box 5204 | REVISION DATE:<br>SUPERCEDES:                     | 08/14/2012<br>02/21/2012   |
|---|---|--|
| Norwalk, CT 06856-5204                            | MSDS Number:<br>SYNONYMS:                         | 00000013792<br>Trichloroisocyanuric Acid, TCCA,<br>Trichlor                    |
|   | CHEMICAL FAMILY:<br>DESCRIPTION / USE<br>FORMULA: | Chloroisocyanurates<br>Swimming pool water treatment<br>NOT APPLICABLE/MIXTURE |

# 2. HAZARDS IDENTIFICATION

| OSHA Hazard<br>Classification:                                      | Corrosive to eyes and skin, Lung toxin, Toxic by ingestion, Toxic by inhalation (dust)., Oxidizer |   |
|---|---|---|
| Routes of Entry:<br>Chemical Interactions:<br>Medical Conditions Ag |   | Inhalation, skin, eyes, ingestion<br>No known or reported interactions.<br>Asthma, respiratory and cardiovascular disease |
| Human Threshold Res   | ponse Data  |   |
| Odor Threshold  | Not establish   | ed for product.   |

Irritation Threshold Not established for product.



| Hazardous Materials Identif                             | fication System /  | National Fire Pro  | otection Association C   | assifications  |
|---|--|--|--|--|
| Hazard Ratings :  | <u>Health</u>  | Flammability   | Physical / Instability   | <u>PPI / Special</u><br>hazard.  |
| HMIS<br>NFPA  | 3<br>2   | 0<br>0   | 2<br>2   | Oxidizer   |
| Immediate (Acute) Lleelth Effect                        | -  |  |  |  |
| Immediate (Acute) Health Effect<br>Inhalation Toxicity: |  | he form of solid ta  | blets is not an inhalation   | hazard.  |
| Skin Toxicity:  | However, if dust<br>or vapor form is<br>also cause burns<br>edema which ca<br>pain, and impair<br>can result in peri<br>DRY MATERIAL<br>MATERIAL CAU<br>causes moderate<br>Dermal exposure<br>burns characteri | is created and inf<br>irritating to the no<br>s to the respiratory<br>n result in shortne<br>ment of lung funct<br>manent lung dama<br>CAUSES MODE<br>ISES SKIN BURN<br>e skin irritation cha<br>to wet material of<br>zed by redness, s | naled, inhalation of this n<br>se, mouth, throat and lur<br>y tract with the productio<br>ess of breath, wheezing,<br>tion. Inhalation of high co<br>age. Toxic by inhalation<br>RATE SKIN IRRITATIO<br>IS. Dermal exposure to co<br>aracterized by redness a<br>can cause severe irritatic<br>welling and scab formation  | naterial in dust<br>ngs. It may<br>n of lung<br>choking, chest<br>oncentrations<br>(dust).<br>N. WET<br>dry material<br>and swelling.<br>on and/or |
| Eye Toxicity:   | CAUSES BURN  | posure. Direct cor   | ent damage.<br>ere irritation and/or burns<br>ntact may cause impairm  |  |
| Ingestion Toxicity:                                     | Toxic if swallowe<br>and/or burns car<br>stomach and inte<br>abdominal pain,   | ed. CAUSES BUR<br>n occur to the entil<br>estines, character<br>bleeding, and/or t   | NS TO DIGESTIVE TRATE<br>re gastrointestinal tract,<br>ized by nausea, vomiting<br>issue ulceration. Ingest<br>tinal tract with the potent   | ncluding the<br>g, diarrhea,<br>ion may cause  |
| Acute Target Organ Toxicity:                            | This product is on may cause irritat   | ion to mucous me<br>ritating to the skin   | sues contacted and upor<br>embranes and respirator<br>. However when wet, it v   | y tract., The  |
| Prolonged (Chronic) Health Effe                         | <u>cts</u>   |  |  |  |
| Carcinogenicity:  | reference source   | e including IARC,  | rted to be carcinogenic b<br>OSHA, NTP or EPA.   |  |
| Reproductive and<br>Developmental Toxicity:             | Not known or rep   | ported to cause re   | productive or developm   | ental toxicity.  |
| Inhalation:   |  |  | ffects from chronic exposed from acute exposure.   | sure except for  |
| Skin Contact:   | Effects similar to   | those from acute   | exposure. In addition, or se effects secondary to the secondary to the secondary to the secondary to the second se |  |



| 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<br>Information : | No additional health information available.   |

# **3. COMPOSITION / INFORMATION ON INGREDIENTS**

| CAS OR CHEMICAL NAME        | <u>CAS #</u> | <u>% RANGE</u> |
|-----------------------------|--------------|----------------|
| TRICHLORO-S-TRIAZINETRIONE  | 87-90-1      | 92.0           |
|                             |              |                |
| ZINC SULFATE                | 7446-19-7    | 3.5            |
|                             |              |                |
| Hexametaphosphate           | 68915-31-1   | 2.50           |
|                             |              |                |
| ALUMINUM SULFATE, ANHYDROUS | 10043-01-3   | 1.50           |

# 4. FIRST AID MEASURES

| General Advice: | Call a poison control center or doctor for treatment advice. For 24-hour<br>emergency medical assistance, call Arch Chemical Emergency Action Network at<br>1-800-654-6911. Have the product container or label with you when calling a<br>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. |
| 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.              |
|                     |  |

### **5. FIRE FIGHTING MEASURES**

| Flammability Summary (OSHA):                                | Product is not known to be flammable, combustible or pyrophoric.,<br>NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1<br>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, 9                        | % 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. Do not contaminate spill material with any organic materials, Land Release: ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container. FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-Additional Spill Information : 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.<br>Upon contact with skin or eyes, wash off with water. Avoid breathing   |
|-------------------------------------|---|
| Storage:                            | dust, mist, vapor or gas.<br>Store in a cool dry ventilated location, away from sources of ignition<br>or other incompatible conditions and chemicals. Keep container(s)<br>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<br>oxidizers acids Bases (Incompatible materials for packaging: paper,<br>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<br>possibl           |                                     | ved respirator if leve | els above the exposure limits are  |
|--------------------------------|-----------------------------|-------------------------------------|------------------------|--|
| Respirator Type :              | A NIOS<br>combir<br>used ir | SH approved function chlorine/line. | P100 cartridges. Air   | respirator equipped with<br>r purifying respirators should not be<br>heres or if exposure concentrations |
| Skin Protection :              | Wear ir                     | npervious glove                     | es to avoid skin cor   | ntact. A full impervious suit is a large portion of the body.  |
| Eye Protection:                |                             | emical goggles                      | •                      | 0 1  |
| Protective Clothing Type:      |                             | Natural rubber,<br>ive suit)        | Neoprene (This inc     | cludes: gloves, boots, apron,  |
| General Protective             | •                           | ,                                   | ty shower should b     | e provided in the immediate work   |
| Measures:                      | area.                       |                                     | -                      |  |
| Exposure Limit Data            |                             |                                     |                        |  |
| CHEMICAL NAME                  |                             | <u>CAS #</u>                        | Name of Limit          | Exposure   |
| TRICHLORO-S-TRIAZINET          | RIONE                       | 87-90-1                             | ARCH-ROEG*             | 0.5 mg/m3 TWA  |
| ALUMINUM SULFATE,<br>ANHYDROUS |                             | 10043-01-3                          | ACGIH                  | 2 mg/m3 Calculated as AI TWA soluble   |

\*ARCH-ROEG: Arch Recommended Occupational Exposure Guideline.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State:<br>Form<br>Color:<br>Odor:<br>Molecular Weigh<br>Specific Gravity<br>pH :<br>Boiling Point:<br>Freezing Point:<br>Melting Point:<br>Density:<br>Vapor Pressure:<br>Vapor Density:<br>Viscosity:<br>Fat Solubility:<br>Solubility in Wat | : >1 (@ 20 Deg. C)<br>2.6 - 3.2 solution<br>Not applicable<br>Not applicable<br>1.79g/cc<br>Not available<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable |
|---|---|
| Partition coefficion coefficion cotanol/water:  | ent n- Not available.   |



Evaporation Rate:NoOxidizing:OxVolatiles, % by vol.:NoVOC ContentNHAP ContentNo

Not applicable Oxidizer Not applicable Not applicable Not applicable

# **10. STABILITY AND REACTIVITY**

| Stability and Reactivity Summary: | May be unstable at temperatures above 225 Deg. C (437 Deg. F)<br>Not sensitive to mechanical shock. Not sensitive to static<br>discharge. Product will not undergo hazardous polymerization.<br>Product is an oxidizer.  |
|-----------------------------------|--|
| Conditions to Avoid:              | Sparks, open flame, other ignition sources, and elevated<br>temperatures., Contact with small amounts of water may result in<br>an exothermic reaction with the liberation of toxic fumes., Damp or<br>slightly wet product (will evolve nitrogen trichloride), May be |
| Chemical Incompatibility:         | unstable at temperatures above 225 Deg. C (437 Deg. F)<br>Organic materials, Oils, Grease, Sawdust, Reducing agents,<br>nitrogen-containing compounds, oxidizers, acids, Bases, Dry fire<br>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 Toxic<br>Oral LD50 value: | ology |                  |             |     |
|--|-------|------------------|-------------|-----|
| TRICHLORO-S-                               | LD50  | = 490 mg/kg F    | Rat         |     |
| TRIAZINETRIONE                             |       | 0.040 //         |             |     |
| ZINC SULFATE                               | LD50  | > 2,949 mg/kg    | rat         |     |
| Hexametaphosphate                          | LD50  | = 3,053 mg/kg    | rat         |     |
| ALUMINUM SULFATE,<br>ANHYDROUS             | LD50  | = 1,930 mg/kg    | Rat         |     |
| ALUMINUM SULFATE,                          | LD50  | = 6,207 mg/kg    | Mouse       |     |
| ANHYDROUS                                  |       |                  |             |     |
| Component Animal Toxic                     | ology |                  |             |     |
| Dermal LD50 value:                         |       |                  |             |     |
| TRICHLORO-S-                               | LD50  | > 2,000 mg/kg    | Rabbit      |     |
| TRIAZINETRIONE                             |       |                  |             |     |
| ZINC SULFATE                               | LD50  | Believed to be > | 2,000 mg/kg | rat |
| Hexametaphosphate                          | no da | ita available    |             |     |
| ALUMINUM SULFATE,                          | LD50  | No data          |             |     |
| ANHYDROUS                                  |       |                  |             |     |



#### 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                 |  |     |
| ZINC SULFATE                   | no data available  |     |
| Hexametaphosphate              | LC50 4 h > 3.69 MG/L rat                                     |     |
| ALUMINUM SULFATE,<br>ANHYDROUS | Inhalation LC50 No data                                      |     |

| <u>Product Animal Toxicit</u><br><u>Oral LD50 value</u> :<br><u>Dermal LD50 value</u> :<br><u>Inhalation LC50</u><br><u>value</u> :  | LD50 490 mg/kg F<br>LD50 > 2,000 mg/kg<br>LC50 4 h (aerosol dus  |   |  |  |
|--|--|---|--|--|
| Skin Irritation:   |  | DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL                                       |  |  |
| Eye Irritation:<br>Skin Sensitization:   | Corrosive to eyes.   | CAUSES SKIN BURNS.<br>Corrosive to eyes.<br>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  |   |  |  |
| Subchronic / Chronic<br>Toxicity:  | the skin. However when wet, it will produce burns to the skin.<br>There are no known or reported effects from repeated exposure., Toxicological<br>investigation indicates it does not produce significant effects from chronic<br>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: Not known or reported to be mutagenic.<br>TRICHLORO-S-TRIAZINETRIONE This product was determined to be non-mutagenic in<br>the Ames assay.   |  |   |  |  |
| Carcinogenicity:   | Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.  |   |  |  |
| HTH® ULTRA 3" CHLORINATING TABLETS<br>REVISION DATE: 08/14/2012 Page 8 of 14   |  |   |  |  |



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    |
|                                       |   |                                  |

### 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    |

#### Ecological Toxicity Values for: ZINC SULFATE

| Rainbow trout       | (Oncorhynchus | - | 96 h LC50 = 2.4 mg/l            |
|---------------------|---------------|---|---------------------------------|
|                     | mykiss)       |   | · · · · · · · · · · · · · · ·   |
| Fathead minnow (Pir | nephales      | - | (static). 96 h LC50 = 3.1 mg/l  |
| promelas),          |               |   |                                 |
| D                   | aphnia magna, | - | (static). 48 h LC50= 0.690 mg/l |

#### Ecological Toxicity Values for: ALUMINUM SULFATE, ANHYDROUS

|               | Largemouth bass | - | 96 h LC50 = 250 mg/l |
|---------------|-----------------|---|----------------------|
| Mosquito fish |                 | - | 96 h LC50 = 235 mg/l |



# **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 DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. |
|--------------------------------|--|
| Disposal Methods :             | As a nonhazardous solid waste it should be disposed of in accordance with local, state and federal regulations.  |
| Potential US EPA Waste Codes : | Not applicable   |

### **14. TRANSPORT INFORMATION**

Land (US DOT): UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRICHLORO-S-TRIAZINETRIONE, ZINC SULFATE) 9 III UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (TRICHLORO-S-TRIAZINETRIONE, ZINC SULFATE) 9 III MARINE POLLUTANT

 Air (IATA):
 Flash Point: Not applicable

 UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (TRICHLORO-S-TRIAZINETRIONE, ZINC SULFATE) 9 III

 Emergency Response Guide Number:
 ERG # 171



Transportation Notes:

Material is not regulated for ground transportation within the US if shipped in non-bulk packages. Material is not regulated as a marine pollutant for ground, rail car, or aircraft transportation within the USA if shipped in non bulk packages per marine pollutant exception 49 CFR 171.4(c).

EMS:

F-A. S-F

### **15. REGULATORY INFORMATION**

#### **UNITED STATES:**

| Toxic Substances Control Act (TSCA):               | This is an EPA registered pesticide.  |
|--|---------------------------------------|
| EPA Pesticide Registration Number:                 | 1258-1341                             |
| FIFRA Listing of Pesticide Chemicals (40 CFR 180): | Not registered in the US under FIFRA. |

#### 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):

| -   | is Substance Section 302 - Thre<br>TPQ (threshold planning<br>quantity) | shold Planning Quantity:<br>None established                        |
|---|---|---|
| Reportable Quantity   | (49 CFR 172.101, Appendix):   |   |
| ZUS_CERCLA  | Reportable quantity   | Aluminum sulfate<br>Value: 5,000lbs<br>ZINC AND COMPOUNDS<br>Value: |
| ZUS_SAR302  | Reportable quantity   | None established  |
| Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components |   |   |

#### Reportable Components Supplier Notification Requirements (40 CFR 372.43), 3

ZUS\_SAR313 De minimis concentration

None established

Clean Air Act Toxic ARP Section 112r: CAA 112R None established HTH® ULTRA 3" CHLORINATING TABLETS



| Clean Air Act Socmi: |                  |
|----------------------|------------------|
| HON SOC              | None established |

Clean Air Act VOC Section 111: CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112: ZUS\_CAAHAP None established

| None established |
|------------------|
|                  |

CAA AP None established

#### State Right-to-Know Regulations Status of Ingredients

#### Pennsylvania:

| CAS #      | COMPONENT NAME              |
|------------|-----------------------------|
| 87-90-1    | TRICHLORO-S-TRIAZINETRIONE  |
| 10043-01-3 | ALUMINUM SULFATE, ANHYDROUS |
| 7446-19-7  | ZINC SULFATE                |
|            |                             |

ZUSPA\_RTK

Pennsylvania: Hazardous substance list 1989-08-11 1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRICHLORO-

Pennsylvania: Hazardous substance list 1989-08-11 SULFURIC ACID, ALUMINUM SALT (3:2) Environmental hazard

Pennsylvania: Hazardous substance list 1990-01-01 ZINC COMPOUNDS Environmental hazard, hazardous substance

New Jersey:

| CAS #      | COMPONENT NAME              |
|------------|-----------------------------|
| 87-90-1    | TRICHLORO-S-TRIAZINETRIONE  |
| 10043-01-3 | ALUMINUM SULFATE, ANHYDROUS |
| 7446-19-7  | ZINC SULFATE                |
|            |                             |

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

New Jersey Right to Know Hazardous Substance List (RTK-HSL) 2007-03-01 ALUMINUM SULFATE SULFURIC ACID, ALUMINUM SALT (3:2) Special Health Hazard - Corrosive

New Jersey Right to Know Hazardous Substance List (RTK-HSL) 1989-12-01 ZINC compounds hazardous substance

#### Massachusetts:

| CAS #      | COMPONENT NAME              |
|------------|-----------------------------|
| 87-90-1    | TRICHLORO-S-TRIAZINETRIONE  |
| 10043-01-3 | ALUMINUM SULFATE, ANHYDROUS |
|            |                             |

ZUSMA\_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1993-04-24 TRICHLORO-S-TRIAZINETRIONE

Massachusetts Right to Know List of Chemicals and Hazard Classifications 1993-04-24 ALUMINUM SULFATE

#### California Proposition 65:

| CAS #     | COMPONENT NAME   |  |
|-----------|------------------|--|
|           |                  |  |
| ZUSCA_P65 | None established |  |

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WHMIS Hazard Classification:

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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

Ingredient Disclosure List (WHMIS) 1988-01-20 Threshold limits: 1 Weight percent 53 ALUMINUM, WATER-SOLUBLE SALTS, N.O.S.

### **16. OTHER INFORMATION**

| MSDS REVISION STATUS : |                         |
|------------------------|-------------------------|
| SECTIONS REVISED:      | 13                      |
| Major References :     | Available upon request. |

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