

# MATERIAL SAFETY DATA SHEET

Date Issued: 12/09/2010

MSDS No: Total Chem 5-In-1 Multi-Purpose Chlorinating Tabs

## Total Chem 5-In-1 Multi-Purpose Chlorinating Tablets

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Total Chem 5-In-1 Multi-Purpose Chlorinating Tablets**GENERAL USE:** Swimming Pool Sanitizer**PRODUCT DESCRIPTION:** Swimming Pool Sanitizer**ACTIVE INGREDIENT(S):** Trichloro-s-triazinetriene**DISTRIBUTOR**

Robelle Industries, Inc.

131 Tosca Dr.

Stoughton, MA 02072

**Product Stewardship:** (781) 297-7422

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** White tablet, blue speckles**IMMEDIATE CONCERNS:** Contact with eyes and skin may cause irritation. Product is an oxidizer and must be stored away from combustibles. Harmful to the environment.**POTENTIAL HEALTH EFFECTS****EYES:** Contact causes severe eye irritation, watering and redness. Can cause burns to the eyes.**SKIN:** Prolonged or repeated contact may cause skin irritation.**INGESTION:** May cause gastric distress, vomiting and diarrhea.**INHALATION:** Dust and processing vapors may cause respiratory tract irritation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
Trichloro-s-triazinetriene	~ 95	87-90-1	201-782-8
Cyanuric Acid	~ 1.5	108-80-5	203-618-0
Trade Secret	~ 3.5		

### 4. FIRST AID MEASURES

**EYES:** Hold eyes 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.**SKIN:** Wash with soap and water. Do not attempt to neutralize with chemical agents. Get medical attention if irritation develops or persists.**INGESTION:** Immediately drink large quantities of water. Do NOT induce vomiting. Call a physician at once. Do not give anything by mouth to an unconscious person.

# MATERIAL SAFETY DATA SHEET

Date Issued: 12/09/2010

MSDS No: Total Chem 5-In-1 Multi-Purpose Chlorinating Tabs

## Total Chem 5-In-1 Multi-Purpose Chlorinating Tablets

**INHALATION:** Drink large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Flammable

**FLAMMABLE LIMITS:** 0 to 0

**GENERAL HAZARD:** Product is not considered flammable or combustible. Products of combustion include compounds of carbon.

**EXTINGUISHING MEDIA:** Carbon dioxide, water, water fog, dry chemical, chemical foam.

**HAZARDOUS COMBUSTION PRODUCTS:** Smokes, fumes or vapors, chlorine, oxides of carbon.

**FIRE FIGHTING PROCEDURES:** Caution. Oxidizing substance. Oxygen released on exothermic decomposition may support combustion. Wet product decomposes exothermically and may cause combustion of organic materials.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Wash to sanitary sewer with plenty of water.

**LARGE SPILL:** Do not allow contact with water. Recover and segregate product for reuse. Do not return product to original storage container. Shovel contaminated product into approved container for disposal.

**COMMENTS:** Caution. Oxidizer.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep container closed when not in use. Keep container dry. Prevent containers from abuse. Store in a cool dry place. Do not mix this product with incompatible materials. Do not store near organic materials. Keep out of reach of children.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



# MATERIAL SAFETY DATA SHEET

Date Issued: 12/09/2010

MSDS No: Total Chem 5-In-1 Multi-Purpose Chlorinating Tabs

## Total Chem 5-In-1 Multi-Purpose Chlorinating Tablets

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Trichloro-s-triazinetriene	TWA	Not Established	Not Established	Not Established	Not Established	[1]	[1]
	STEL	Not Established	Not Established	Not Established	Not Established		
Cyanuric Acid	TWA					10 mg/m <sup>3</sup> [2]	[2]
<b>Footnotes:</b> 1. The TLV for Chlorine is 0.5 ppm (1.5 mg/m <sup>3</sup> ) TWA and 1ppm STEL. 2. (Total Particulate)							

**ENGINEERING CONTROLS:** Local exhaust.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical safety glasses or goggles.

**SKIN:** Neoprene, butyl or nitrile rubber gloves with cuffs.

**RESPIRATORY:** A NIOSH-approved air purifying respirator with an appropriate particulate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential of an uncontrolled release, if exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Solubility in Water	Specific Gravity
Trichloro-s-triazinetriene	1.28 g/100 mg @ 25 deg C	2.07

**PHYSICAL STATE:** Solid

**ODOR:** Chlorine.

**APPEARANCE:** White tablet, blue speckles.

**pH:** Not Available

**PERCENT VOLATILE:** None

**VAPOR PRESSURE:** 16.092

**VAPOR DENSITY:** 16.092

**BOILING POINT:** Not Applicable

**FREEZING POINT:** Not Applicable

**FLASHPOINT AND METHOD:** Not Flammable

**SOLUBILITY IN WATER:** Complete.

# MATERIAL SAFETY DATA SHEET

Date Issued: 12/09/2010

MSDS No: Total Chem 5-In-1 Multi-Purpose Chlorinating Tabs

## Total Chem 5-In-1 Multi-Purpose Chlorinating Tablets

**EVAPORATION RATE:** Not Applicable

**SPECIFIC GRAVITY:** 1.890

**(VOC):** 106.500

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**CONDITIONS TO AVOID:** Avoid generating airborne dust. Avoid moisture. Avoid combustible materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced. Contact with water or humidity releases flammable oxygen.

**INCOMPATIBLE MATERIALS:** Strong reducing agents, strong acids, strong alkalis, water, organic materials. Contact with acids liberates toxic gas.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**NOTES:** Trichloro-s-triazinetriene, dry LD50 Oral-Rat 406 mg/kg  
Cyanuric Acid LD50 Oral-Rat 7700 mg/kg

### 12. ECOLOGICAL INFORMATION

**Notes:** Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment. Neith COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in a biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in accordance with applicable local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated.

**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated

**OTHER SHIPPING INFORMATION:** DOT Oxidizer Classification Testing results show that this product is not considered to be a DOT Hazardous Material and does not require a Hazmat Label or the Performance Oriented (UN) Packaging.



# MATERIAL SAFETY DATA SHEET

Date Issued: 12/09/2010

MSDS No: Total Chem 5-In-1 Multi-Purpose Chlorinating Tabs

## Total Chem 5-In-1 Multi-Purpose Chlorinating Tablets

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Hazard Categories: Health: Immediate (Acute) Health Hazard

313 REPORTABLE INGREDIENTS: None.

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Trichloro-s-triazinetriene	87-90-1
Cyanuric Acid	108-80-5

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

CALIFORNIA PROPOSITION 65: There are no chemicals present known to the State of California to cause cancer.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This is an EPA-registered product.

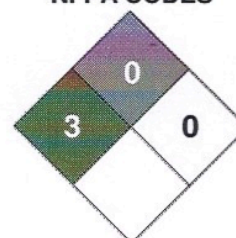
### 16. OTHER INFORMATION

#### REVISION SUMMARY: New MSDS

##### HMIS RATING

HEALTH:	<input type="checkbox"/>	3
FLAMMABILITY:	<input type="checkbox"/>	0
PHYSICAL HAZARD:	<input type="checkbox"/>	0
PERSONAL PROTECTION:	<input type="checkbox"/>	

##### NFPA CODES



**MANUFACTURER DISCLAIMER:** Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).