

# SAFETY DATA SHEET

Date Prepared : 09/27/2010

SDS No. : Robelle 5 In 1 Multi-Purpose Tabs

Date Revised : 06/27/2016

Revision No : 7

## 5-In-1 Multi-Purpose Tabs

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 5-In-1 Multi-Purpose Tabs**GENERAL USE:** Swimming Pool Sanitizer**PRODUCT DESCRIPTION:** 1314N6UX**ACTIVE INGREDIENT(S):** Trichloro-s-triazinetriene**DISTRIBUTOR**

Robelle Industries, Inc.

(781) 297-7422

60 Campanelli Dr

Braintree, MA 02184

### 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Acute Toxicity (Oral), Category 4

Skin Corrosion/Skin Irritation, Category 1C

Serious Eye Damage, Category 1

Target Organ Toxicity (Single exposure), Category 3

Acute Toxicity (Inhalation), Category 2

**Environmental:**

Acute Hazards to the Aquatic Environment, Category 1

Chronic Hazards to the Aquatic Environment, Category 1

**GHS LABEL**Skull and  
crossbones

Corrosion

Exclamation  
mark

Environment

**SIGNAL WORD: DANGER****HAZARD STATEMENTS**

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

H330: Fatal if inhaled.

**PRECAUTIONARY STATEMENT(S)****Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P285: In case of inadequate ventilation wear respiratory protection.

4304ZF6P: Wash exposed skin thoroughly after handling.

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P270: Do not eat, drink or smoke when using this product.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220: Keep away from clothing and other combustible materials.  
 P271: Use only outdoors or in a well-ventilated area.

### Response:

P330: Rinse mouth.  
 P391: Collect spillage.  
 P370+P378: In case of fire: Use ... to extinguish.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.  
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P363: Wash contaminated clothing before reuse.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P310: Immediately call a POISON CENTER/doctor/...

### Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

### Disposal:

P501: Dispose of contents/container to ...

**COMMENTS:** UN test 0.1 results show that this product does not meet GHS criteria for Oxidizing Solids.

\* **Note:** 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.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Trichloro-s-triazinetrione	94.05	87-90-1
Trade Secret	5.95	

## 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. See a doctor immediately.

**SKIN:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Call 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.

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**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE FIGHTING MEASURES

**HAZARDOUS COMBUSTION PRODUCTS:** Chlorine, Nitrogen, Nitrogen trichloride, Cyanogen chloride, Oxides of carbon.

**FIRE FIGHTING PROCEDURES:** Extinguish with large amounts of water. Do not use dry chemicals, carbon dioxide or halogenated agents.

**FIRE FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus in pressure-demand mode and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Sweep up spill with a dry broom into suitable container for disposal.

**RELEASE NOTES:** Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, or oceans. Do not flush into surface water or sanitary sewer systems.

**COMMENTS:** Avoid inhalation and contact with eyes and skin. Use personal protective equipment.

### 7. HANDLING AND STORAGE

**HANDLING:** Wear proper protective equipment in order to avoid contact with eyes or skin. Remove and wash contaminated clothing before re-use. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Use only in area with appropriate exhaust ventilation.

**STORAGE:** Keep product in tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat or open flame. Do not store with water, oxidizing agents, alkalies, grease, reducing agents and acids. Keep out of reach of children.

**COMMENTS:** Incompatible Products: Strong oxidizing agents. Strong acids.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	Type	EXPOSURE LIMITS		
			ppm	mg/m <sup>3</sup>
Trichloro-s-triazinetrione	OSHA PEL	TWA	Not Established	Not Established
		STEL	Not Established	Not Established
	ACGIH TLV	TWA	Not Established	Not Established
		STEL	Not Established	Not Established
	Supplier OEL	TWA	[1]	[1]

#### Footnotes:

1. The TLV for Chlorine is 0.5 ppm (1.5 mg/m<sup>3</sup>) TWA and 1ppm STEL.

**ENGINEERING CONTROLS:** Ventilation systems, eyewash stations, showers.

#### PERSONAL PROTECTIVE EQUIPMENT

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

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**SKIN:** Chemical-resistant gloves.

**RESPIRATORY:** 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.

**PROTECTIVE CLOTHING:** Wear impervious long-sleeved clothing to minimize skin contact.

**WORK HYGIENIC PRACTICES:** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse. Provide regular cleaning of equipment, work area and clothing.

**COMMENTS: Exposure limits for Air Contaminants (OSHA)**

Particulates not otherwise regulated: Total dust; TWA 15 mg/m<sup>3</sup>; Respirable fraction: TWA 5 mg/m<sup>3</sup>

**Exposure Limits for Air Contaminants (ACGIH)**

Particulates (insoluble or poorly soluble) - Respirable Particles: TWA 3 mg/m<sup>3</sup>; Inhalable Particles: TWA 10 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**PHYSICAL STATE:** Solid

**ODOR:** Chlorine-like.

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

**pH:** Not Available

**PERCENT VOLATILE:** None

**FLASHPOINT AND METHOD:** Not Flammable

**FLAMMABLE LIMITS:** 0 to 0

**VAPOR PRESSURE:** N/A

**VAPOR DENSITY:** N/A

**BOILING POINT:** Not Applicable

**FREEZING POINT:** Not Applicable

**MELTING POINT:** 225°C (437°F) to 230°C (455°F)

**SOLUBILITY IN WATER:** Complete.

**EVAPORATION RATE:** Not Applicable

**SPECIFIC GRAVITY:** 1.89

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under recommended storage conditions.

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**CONDITIONS TO AVOID:** Protect from moisture. Avoid incompatible products.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Chlorine, nitrogen trichloride, hydrogen chloride, nitrogen oxide, carbon monoxide, carbon dioxide, and nitrogen.

**INCOMPATIBLE MATERIALS:** Acid, alkali, other chlorine agents, oils/fats, and flammable materials.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

Chemical Name	ORAL LD <sub>50</sub> (rat)
Trichloro-s-triazinetrione	1060 to 1010 Rat 490 mg/kg.

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg - Rabbit

**Notes:** As to full strength Trichloroisocyanuric Acid

**ORAL LD<sub>50</sub>:** 809 kg (rat)

**Notes:** As to full strength Trichloroisocyanuric Acid.

**INHALATION LC<sub>50</sub>:** > 0.09 to < 0.29 mg/L (4hr) Rat

**Notes:** This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

**GERM CELL MUTAGENICITY:** AMES Test: Negative (*Test substance: monosodium cyanurate*)

Mouse Lymphoma Assay: Negative (*Test substance monosodium cyanurate*)

#### CARCINOGENICITY

**NOTES:** Not classified as a carcinogen by NTP, IARC or OSHA.

**REPRODUCTIVE TOXICITY:** Not known or reported to cause reproductive or developmental toxicity.

**STOT-SINGLE EXPOSURE:** Breathing dust or fumes is expected to be a primary route of exposure. May produce throat and respiratory tract irritation.

### 12. ECOLOGICAL INFORMATION

**BIOACCUMULATION/ACCUMULATION:** This product is not expected to bioaccumulate.

#### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC<sub>50</sub>:** 0.22 mg/L (*Oryzias latipes*)

**CHEMICAL FATE INFORMATION:** Decomposable in nature.

0% by BOD after 14 days. 7.8% by TOC after 14 days. 5.3% by HPLC after 14 days.

100% in aerobic activated sludge after 8 hours. 100% in anaerobic sludge after 72 hours. 52% - 100% in aerobic activated sludge after 9-23 days.

**COMMENTS:** Do not dispose of wastes into garbage can or garbage dump. This may cause a fire.

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### 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.

**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.

**AIR (ICAO/IATA):** Not recommended for Air Shipment.

### 15. REGULATORY INFORMATION

#### UNITED STATES

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

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

**FIRE:** No additional information available. **PRESSURE GENERATING:** No additional information available.

**REACTIVITY:** No additional information available. **ACUTE:** Yes **CHRONIC:** No additional information available.

**313 REPORTABLE INGREDIENTS:** No reportable chemicals.

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Not listed.

**CERCLA RQ:** Not listed.

**REPORTABLE SPILL QUANTITY:** N/A (for chlorine RQ=10)

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

#### OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

**29 CFR1910.119--PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** CAS No. 87-90-1

#### REGULATIONS

**STATE REGULATIONS:** The ingredient for CAS #87-90-1 is listed on the following state lists:

Massachusetts Right To Know Hazardous Substances List

New Jersey Worker and Community Right to Know Act

Pennsylvania Hazardous Substance List

**CALIFORNIA PROPOSITION 65:** Not Applicable.

**CLEAN WATER ACT:** No regulated ingredients reportable under the Clean Water Act.

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** This chemical is a pesticide product registered by the Environmental Protection Agency 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, and for workplace labels of non-pesticide chemicals. Below you will find the hazard information that is required on the EPA pesticide label.

**GENERAL COMMENTS: HAZARD INFO FOUND ON TRICHLOROISOCYANURIC ACID LABEL:**

**DANGER.** Hazards to humans and domestic animals.

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Corrosive.

Causes irreversible eye damage or skin burns.

May be fatal if absorbed through skin.

May be fatal if inhaled.

Irritating to nose and throat.

Harmful if swallowed.

Toxic to fish and aquatic organisms.

### 16. OTHER INFORMATION

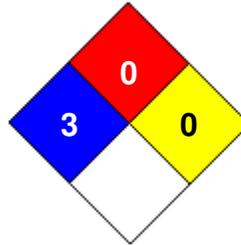
Date Revised: 06/27/2016

REVISION SUMMARY: This SDS replaces the 06/07/2016 SDS. Revised: **Section 13: RCRA/EPA WASTE INFORMATION.**

#### 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



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