

MATERIAL SAFETY DATA SHEET

Date Issued: 07/01/2008
 MSDS No: Robelle Jumbo Tabs
 Date Revised: 09/11/2008
 Revision No: 2

Robelle Jumbo Tabs

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Robelle Jumbo Tabs
GENERAL USE: Swimming Pool Sanitizer
PRODUCT DESCRIPTION: Trichloro-s-triazinetrione
CHEMICAL FAMILY: Isocyanurate
GENERIC NAME: Trichloroisocyanuric Acid
ACTIVE INGREDIENT(S): Trichloro-s-triazinetrione

DISTRIBUTOR

Robelle Industries, Inc.
 131 Tosca Dr.
 Stoughton MA 02072
Product Stewardship: (781) 297-7422

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White tablet

IMMEDIATE CONCERNS: Highly corrosive. Causes irreversible eye damage and burns to skin. May be fatal if swallowed. Will burn with the evolution of chlorine and equally toxic gases. Do not get in eyes, on skin or clothing. Avoid breathing dust and fumes.

POTENTIAL HEALTH EFFECTS

EYES: Dust and vapors can cause irritation, redness, tearing and burns. Corrosive, contact causes severe eye burns.

SKIN: Initially non-irritating but prolonged contact will produce chemical burns. Burns are also induced when moisture is added.

INGESTION: May cause Irritation or burns to the gastrointestinal tract.

INHALATION: Irritating to nose, mouth, throat and lungs. May cause burns to respiratory tract.

ROUTES OF ENTRY: Eyes, Skin, Respiratory and Digestive Tract

CANCER STATEMENT: NA = Not Applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Trichloro-s-triazinetrione	99	000087-90-1	201-782-8

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4. FIRST AID MEASURES

EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

SKIN: In case of contact, immediately brush off excess product and flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation develops, get medical attention.

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.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: NA = Not Applicable

FLAMMABLE LIMITS: 0 to 0

EXTINGUISHING MEDIA: Spray or fog, heavy deluge or fog streams.

FIRE FIGHTING PROCEDURES: Flood with copious amounts of water. Use great care in approaching wet containers of hot product as these conditions lead to NC13 formation, an explosive substance.

FIRE FIGHTING EQUIPMENT: Firefighters should wear full protective clothing and SCBA when potential for exposure to products of combustion exists. Use large amounts of water. Small quantities of water with large quantities of hot product may lead to fire or explosion. Do not use CO₂, dry chemical, foam or halon.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes at 225 Deg C. Keep inflammable materials away from product. Highly reactive oxidizing materials may result in fire.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up spills with a dry broom. Contain material and do not allow material to sit on ground and become moist. Do not contaminate with water, organics or nitrogen containing compounds.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not discharge into drains or waterways.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation.

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HANDLING: Keep away from moisture, sunlight and high temperatures. Keep away from flammable liquids, combustibles and oxidizers. Avoid dust formation.

STORAGE: Keep containers tightly closed in a dry, well-ventilated area. Do not store at temperatures above 60 Deg C/140 Deg F.

STORAGE TEMPERATURE: Less than 25 degrees Celsius.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Trichloro-s-triazinetrione	TWA	Not Established	Not Established	Not Established	Not Established	[1]	[1]
	STEL	Not Established	Not Established	Not Established	Not Established		
Footnotes: 1. The TLV for Chlorine is 0.5 ppm (1.5 mg/m ³) TWA and 1ppm STEL.							

ENGINEERING CONTROLS: Local exhaust with circulation to the outside is needed in the event of decomposition which produces fumes and chlorine gas.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical safety glasses or goggles.

SKIN: Neoprene gloves. Wash thoroughly after handling.

RESPIRATORY: For product manufacturing or emergency situations, wear an OSHA-NIOSH approved full facepiece respirator equipped with chemical cartridge.

PROTECTIVE CLOTHING: Neoprene apron and impervious clothing.

WORK HYGIENIC PRACTICES: Provide safety shower and eyewash station in the work area.

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

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PHYSICAL STATE: Solid

ODOR: Chlorine.

APPEARANCE: White tablet.

pH: 2.8

VAPOR PRESSURE: NA = Not Applicable

VAPOR DENSITY: NA = Not Applicable

BOILING POINT: NA = Not Applicable

FREEZING POINT: NA = Not Applicable

FLASHPOINT AND METHOD: NA = Not Applicable

SPECIFIC GRAVITY: 2.070

(VOC): 99.000

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: Avoid temperatures above 225 degrees C / 437 deg F as decomp produces toxic gases. Do not store near combustible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen trichloride, chlorine, nitrous oxides.

INCOMPATIBLE MATERIALS: Avoid contact with organic matter. Avoid contact with easily chlorinated or oxidized materials which may result in fire.

Avoid contact with ammonia, ammonium salts, urea or similar compounds which contain nitrogen. This may form nitrogen trichloride, a highly explosive compound.

Avoid contamination with oils and greases which may cause decomposition with the formation of CO₂ and Cl₂.

This product may form an explosive mixture with calcium hypochlorite.

In a formulation containing this material as the major component, alkaline materials such as soda ash (Na₂CO₃) in the presence of moisture may cause violent decomposition and fire.

Avoid contact with alcohols, ethers, and solvents (toluene, xylene, turpentine, etc.)

Avoid contact with small amounts of water. (Do not add water to chemical, add chemical to water.)

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11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 1060 mg/kg (rat)**Notes:** No abnormal signs are observed on the subacute toxicity test of oral administration (10-400 mg/kg) on rats for a month.

CARCINOGENICITY

IARC: NA = Not Applicable**NTP:** NA = Not Applicable**OSHA:** NA = Not Applicable

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE)

48-HOUR EC₅₀: 1.5 TLM ppm Oryzias Latipes**Notes:** Do not discharge into drains or waterways.

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: Trichloroisocyanuric Acid Dry**PRIMARY HAZARD CLASS/DIVISION:** 5.1**UN/NA NUMBER:** UN 2468**PACKING GROUP:** II**NAERG:** 140**LABEL:** 5.1 Oxidizer**SPECIAL SHIPPING NOTES:** DOT Special Provisions: IB8, IP4, T3, TP33

Packaging Exceptions: 152

Nonbulk: 212

Bulk: 240

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15. REGULATORY INFORMATION

UNITED STATES

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)

Chemical Name	CAS
Trichloro-s-triazinetriene	000087-90-1

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

REGULATIONS

STATE REGULATIONS: Massachusetts Hazardous Substance - Yes
 Pennsylvania Hazardous Substance - Yes

CALIFORNIA PROPOSITION 65: Not Applicable

CARCINOGEN: Not Applicable

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

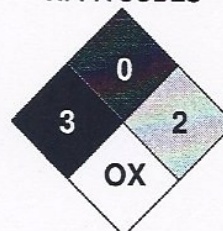
16. OTHER INFORMATION

REVISION SUMMARY: Revision #: 2. This MSDS replaces the June 13, 2008 MSDS.

HMIS RATING

HEALTH:	3
FLAMMABILITY:	0
PHYSICAL HAZARD:	2
PERSONAL PROTECTION:	

NFPA CODES



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