MATERIAL SAFETY DATA SHEET

Section 1 – Product and Company Information

Brand Name: POOLINE JUMBO TABS  
EPA Registration Number: 88346-2  
Item Name: TRICHLOROISOCYANURIC ACID  
Company Name: TIANJIN POOL & SPA CORPORATION  
Company Street: 2522 MALT AVENUE  
Company City: COMMERCE  
Company State: CA  
Company Country: US  
Company Zip Code: 90040  
Company Emergency Phone #: 1-800-535-5053  
Company Information Phone #: 626-571-1885  
MSDS Serial Number: CHTCA  
Type of Container: PLASTIC DRUMS AND PAILS  
Net Unit Weight: 110, 55, 40, 35, 30, 25, 20, 15, 10, 8, 5, 4, 2, 1 LBS

Section 2 – Hazards Identification

Emergency Overview

DANGER: Corrosive. Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes or on clothing. May be fatal if inhaled. Avoid breathing dust or fumes. Wear protective eyewear (goggles and face shield). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear chemically resistant coveralls (or apron) over long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (butyl rubber and nitrile rubber). Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or going to the toilet. Remove and wash contaminated clothing before reuse.

Label Required: YES  
Label Status: G  
Common Name: TCCA  
Chronic Hazard: YES  
Signal Word: DANGER
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-Slight: X

SPECIAL HAZARD PRECAUTIONS: Corrosive, oxidizer. Avoid water, temperature above 225°C.
ACUTE: Inhalation may cause irritation to nose, mouth, throat & lungs, burns to respiratory tract, lung edema, wheezing, choking, chest pain and shortness of breath. Eye contact may cause severe irritation, burns, vision impairment and corneal damage. Skin contact may cause severe irritation, burns, redness, swelling and scab formation.
Ingestion may cause irritation or burns to GI tract, nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration.
CHRONIC: Repeated inhalation may cause impairment of lung function and permanent lung damage.

Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: POOLINE JUMBO TABS
Label Country: CHINA

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Section 3 - Composition Information

Proprietary: NO
Ingredient: S-TRIAZINE, 2,4,6(IH,3H,5H)-TRIONE, 1,3,5-TRICHLORO: (TRICHLOROISOCYANDRIC ACID).
Ingredient Sequence Number: 01
Percent: 90-100
NIOSH (RTECS) Number: XZ1925000
CAS Number: 87-90-1
OSHA PEL: N/A
ACGIHTLV: N/A

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Proprietary: NO
Ingredient: S-TRIAZINE, 2,4,6(IH,3H,5H)-TRIONE, 1,3- DICHLORO: (DICHLOROISOCYANDRIC ACID)
Ingredient Sequence Number: 02
Percent: 0-10
NIOSH (RTECS) Number: XZ1845000
CAS Number: 2782-57-2
OSHA PEL: N/A
ACGIH TLV: N/A
GENERAL ADVICE: First Aid responders should pay attention to self-protection and use the recommended protective clothing if potential for exposure exists (See Section 8).

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 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.

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.

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

Have the product container, label, or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

FLASH POINT: N/A
FLAMMABILITY CLASS: Not Flammable
LOWER EXPLOSIVE LIMIT: N/A
UPPER EXPLOSIVE LIMIT: N/A
EXTINGUISHING MEDIA: Use media suitable for surrounding fire (FP N). Do not use dry chemical extinguishers containing ammonia compounds.
SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved SCBA & full protective equipment (FP N). Use water to cool containers exposed to fire. Flood with 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. Use great care in approaching wet containers of hot product as these conditions lead to NC13 formation, an explosive substance.
HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes at 225°C. Keep inflammable materials away from product. Highly reactive oxidizing materials may result in fire.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Not specified by manufacturer.

NFPA OXIDIZER CLASS: Meets the criteria of an NFPA Class 1 Oxidizer.

Product is not known to be flammable, combustible or pyrophonic.

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Section 6 - Accidental Release Measures
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SPILLS: Sweep up spill with a dry broom and contain. Do not allow material to sit on ground and become moist. Do not contaminate with water, organics or nitrogen compounds.

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Section 7 - Handling and Storage
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{For Household/Residential Products}
{For Rigid Nonrefillable container 50 lbs or less}
CONTAINER HANDLING: Nonrefillable container. Do not re-use or refill this container. Triple rinse (or equivalent) promptly after emptying. Then offer for recycling, or reconditioning if available, or puncture and dispose of in a sanitary landfill, or by incineration.
Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

{For Commercial/Industrial/Institutional Products}
{For rigid Nonrefillable container greater than 50 lbs}
CONTAINER HANDLING: Nonrefillable rigid container. Do not re-use or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.
Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.
RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respirator equipped with chemical cartridge for protection against chlorine gas and a dust/mist type prefilter.
VENTILATION: Use local exhaust ventilation to minimize dust levels.
PROTECTIVE GLOVES: Neoprene/Chlorinated polyethylene (ING 9).
EYE PROTECTION (Chemical Workers): Goggles, full length face shield (FP N).
OTHER PROTECTIVE EQUIPMENT: Neoprene/Chlorinated polyethylene/butyl rubber and saranex type boots/aprons or impermeable suit to avoid skin/eye contact.
WORK HYGIENIC PRACTICES: Upon contact with skin or eyes, wash off with water.
SUPPLEMENTAL SAFETY & HEALTH DATA:
pH OF 1% solution: 2.7-2.9.
FIRE FIGHTING PROCEDURE: Use heavy deluge/fog streams. Flooding amounts of water may be required before extinguishment can be accomplished.
INGESTION: Irritation/burns can occur to the GI tract, including stomach/intestines, characterized by nausea, vomiting, diarrhea, abdominal pain (ING3).

APPEARANCE: White granular solid, powder solid or tablet form product.
ODOR: Sharp, chlorine-like, bleach odor.
BOILING POINT: N/A
MELTING POINT: N/A
VAPOR DENSITY (Air = 1): N/A
SPECIFIC GRAVITY: > 1 @ 25°C
DECOMPOSITION TEMPERATURE: 225°C
EVAPORATION RATE AND REF: N/A
SOLUBILITY IN WATER: Moderate
PERCENTAGE VOLATILES BY VOLUME: N/A

STABILITY: Yes
CONDITIONS TO AVOID (Stability): Avoid temperatures >225°C, which may result in exothermic reaction with liberation or toxic fumes, slightly wet product.
MATERIALS TO AVOID: Organic materials, oils, grease, sawdust, reducing agents, nitrogen containing compounds, other oxidizers, acids, bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide.
HAZARDOUS POLYMERIZATION OCCURRENCE: None known.
CONDITIONS TO AVOID (Polymerization): Not applicable.

Section 11 – Toxicological Information

LD50-LC50 MIXTURE (LD50 - ORAL, RAT): 490 MG/KG
ROUTE OF ENTRY - Inhalation: YES
ROUTE OF ENTRY - Skin: NO
ROUTE OF ENTRY - Ingestion: YES
HEALTH AND HAZARD ACUTE AND CHRONIC:
Inhalation (Acute): Irritating to nose, mouth, throat & lungs, nausea, headache, or dizziness. Cause burns to respiratory tract with production of lung edema which can result in shortness of breath, wheezing, choking, chest pain & impairment of lung function. Inhalation of high concentrations can result in permanent lung damage. Chronic (Effects of overexposure): Impairment of lung function.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: Not Applicable.
SIGNS/SYMPTOMS OF OVEREXPOSURE:
Health Hazard: Permanent lung damage, severe irritation and/or burns can occur following eye exposure. May cause impairment of vision/corneal damage. Acute skin contact can cause severe irritation/burns characterized by redness/swelling/scab formation. Prolonged exposure may cause destruction of dermis with impairment of skin at site of contact.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma, respiratory, and cardiovascular disease.

Section 12: Ecological Information

ECOTOXICITY: Not available.
ENVIRONMENTAL FATE: Not available.
Section 13 – Precautions for Safe Handling and Use

STEPS IF MATERIAL IS RELEASED/SPILLED: Hazardous concentration in air may be found in local spill area and immediately downwind. If spill is dry, do not put water directly on product as gases may occur. If wet, contact Ocean Network for proper stabilization procedures. Vapors may be suppressed by water fog (ING 7).

NEUTRALIZING AGENT: None specified by manufacturer.

WASTE DISPOSAL METHOD: You are requested to contact authorized facilities before beginning any such operation. As solid waste, it must be disposed of in accordance with local, state, and federal regulations.

DISPOSAL METHOD: Dispose of in accordance with applicable local, state, and federal regulations (ING 8).

PRECAUTIONS (Handling/Storing): Do not take internally. Avoid contact with skin, eyes, clothing. Store in clean dry well ventilated area. Keep away from incompatible chemicals. Do not store >60°C.

OTHER PRECAUTIONS: Oxidizer, skin corrosive, eye hazard, oral toxin, lung toxin. Harmful if inhaled or ingested. Harmful if exposed to skin or eyes.

Section 14 – Transport Information

DOT PSN Code: OQR
DOT Proper Shipping Name: TRICHLOROISOCYANURIC ACID, DRY
DOT Class: 5.1
DOT ID Number: US 2468
DOT Pack Group: II
DOT Label: Oxidizer
IMO PSN Code: OWB
IMO Proper Shipping Name: 1,3,5,- TRICHLORO-S-TRIAZINE-2,4,6- TRIONE*
IMO Regulations Page Number: SEE 5190
IMO UN Number: 2468
IMO UN Class: 5.1
IMO Subsidiary Rick Label:
|ATA PSN Code: YMI
|ATA UN ID Number: 2468
|ATA Proper Shipping Name: TRICHLOROISOCYANURIC ACID, DRY
|ATA UN Class: 5.1
|ATA Label: Oxidizer
AFI PSN Code: YMI
AFI Proper Shipping Name: TRICHLOROISOCYANURIC ACID
AFI Class: 5.1
AFI ID Number: UN2468
Section 15: Other Regulatory Information

UNITED STATES
DOT HAZARD CLASSIFICATION
Oxidizing
CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
CERCLA REGULATORY: Not listed.
CERCLA RQ: Not listed.
TSCA (TOXIC SUBSTANCE CONTROL ACT)
Chemical Name: Trichloro-s-triazinetrione
CAS Number: 87-90-1
FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT)
This is an EPA-registered product.

Section 16: Other Information

OTHER CLASSIFICATIONS:
HMIS (U.S.A.):
Health Hazard: 3
Flammability: 0
Physical Hazard: 2
National Fire Protection Association (U.S.A.):
Health Hazard: 3
Flammability: 0
Physical Hazard: 2

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