

MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL NAME / IDENTIFIER

STABILIZED GRANULAR CHLORINE, CHLORAIID, DI-CHLOR **WHMIS:** D28,C,E – Regulated under the PCP Act

MANUFACTURER'S NAME: CAPO INDUSTRIES LTD
STREET ADDRESS: 1200 CORPORATE DRIVE
CITY: BURLINGTON, ONTARIO
POSTAL CODE: L7L 5R6

EMERGENCY TELEPHONE: CANUTEC (613) 996-6666 (COLLECT)

CHEMICAL NAME: Sodium Dichloro-S-Triazone Trione
CHEMICAL FAMILY: Chlorinated Isocyanurate
CHEMICAL FORMULA: Not applicable
TRADE NAME & SYNONYMS: Dichloroisocyanuric Acid Sodium Salt
MOLECULAR WEIGHT: Not applicable
MATERIAL USE: Pool Water Disinfectant

SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredients	Approx Conc %	C.A.S. N.A. U.N. Number	LD 50 Specify Species & Route (Oral, RAT)	LC 50 Specify Species & Route (Inhal, RAT)
Sodium Dichloro-S-Triazinetrione	60-100	2893-78-9	670 mg/kg	Not available

SECTION III PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: GAS LIQUID SOLID X

ODOUR & APPEARANCE: White, opaque, granular, chlorine odour

ODOUR THRESHOLD (PPM): Not applicable

SPECIFIC GRAVITY: 2.03

VAPOUR PRESSURE (MM): Not applicable

VAPOUR DENSITY (AIR-1): Not applicable

EVAPORATION RATE: Not applicable

BOILING POINT (C): 238 – 249 decomposes

FREEZING POINT (C): Not applicable

SOLUBILITY IN WATER (20C): 30g in 100g H2O @ 25 deg C

% VOLATILE (BY WEIGHT) Not applicable

PH: 6.5 (1% solution)

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

MATERIAL SAFETY DATA SHEET

SECTION IV - FIRE & EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: YES NO X

IF YES, UNDER WHICH CONDITIONS?: Not flammable, but if heated by other sources to 238 – 249 deg C, it will undergo decomposition with evolution of heat and dense, noxious fumes.

MEANS OF EXTINCTION: Water

SPECIAL PROCEDURES: Wear full protective clothing and breathing apparatus when fire fighting

FLASHPOINT (CELSIUS) AND METHOD: Not applicable

AUTOIGNITION TEMPERATURE (CELSIUS): Not applicable

LOWER EXPLOSION LIMIT (% BY VOLUME): Not applicable

UPPER EXPLOSION LIMIT (% BY VOLUME): Not applicable

HAZARDOUS COMBUSTION PRODUCTS: Chlorine gas and traces of phosgene.

EXPLOSION DATA

SENSITIVITY TO MECHANICAL IMPACT: None **SENSITIVITY TO STATIC DISCHARGE:** None

SECTION V REACTIVITY DATA

CHEMICAL STABILITY: YES NO X

IF NO, UNDER WHICH CONDITIONS?: Avoid contact with incompatible material and damp conditions.

INCOMPATIBILITY TO OTHER SUBSTANCES: YES X NO

IF SO, WHICH ONES: Easily oxidizable organic materials, ammonia, urea or similar nitrogen containing compounds, inorganic reducing compounds, calcium hypochlorite, alkalis and acids.

REACTIVITY AND UNDER WHAT CONDITIONS: Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures of 204 deg C and greater, chlorine gas and traces of phosgene will be liberated.

SECTION VI TOXICOLOGICAL PROPERTIES OF MATERIAL

ROUTE OF ENTRY:

: SKIN CONTACT	X	: SKIN ABSORPTION	: EYE CONTACT	X
: INHALATION ACUTE	X	: INHALATION CHRONIC	: INGESTION	X

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

SKIN: Corrosive

EYE: Corrosive

INHALATION: Fumes may produce eye, nose, throat and respiratory tract irritation.

INGESTION: This product may be harmful if swallowed. Corrosive to mucous membranes.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: None known

OTHER HEALTH EFFECTS: None known

LD 50 OF MATERIAL (Specify Species and Routes): See Section II

STABILIZED GRANULAR CHLORINE, CHLORAID, DI-CHLOR

MATERIAL SAFETY DATA SHEET

LC 50 OF MATERIAL (Specify Species and Routes): See Section II

EXPOSURE (LIMITS): Chlorine – TWAEV – 1ppm, 3mg/m³
- STEV - 3ppm, 4mg/m³
(May be found in head space of containers)

IRRITANCY OF MATERIAL: Strong irritant of skin, eye, nose and throat.

SENSITIZATION OF MATERIAL: None known.

SYNERGISTIC MATERIALS: None known

CARCINOGENICITY, MUTAGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY: None known

SECTION VII

PREVENTATIVE MEASURE PERSONAL PROTECTIVE EQUIPMENT

GLOVES (Specify): Rubber gloves if skin contact is likely.

EYE (Specify): Safety glasses if eye contact is likely.

RESPIRATORY (Specify): Use NIOSH/NSHA approved dust or vapour mask when airborne exposure limits are exceeded.

OTHER (Specify): Protective clothing if contact is likely.

ENGINEERING CONTROLS (e.g. Ventilation, Enclosed Process – Specify): Use in a well ventilated area.

LEAK AND SPILL PROCEDURE: If material is spilled, clean up as soon as possible to prevent contamination with a material with which it may react. Keep spilled material dry. Sweep up and place material in a dry, clean container.

WASTE DISPOSAL: If material is dry, disposal by incineration is recommended. Alternate method for disposal is by neutralizing to a nonoxidizing residue. Keep unneutralized material out of sewers, watersheds and water systems.

HANDLING PROCEDURES AND EQUIPMENT: Avoid skin, eye and clothing contact. Use in well ventilated area. Wash thoroughly with soap and water after handling.

STORAGE REQUIREMENTS: Store in cool, dry area. Do not allow water to get into containers. Keep containers tightly closed when not in use.

SPECIAL SHIPPING INFORMATION:

Transportation:	Dichloroisocyanuric Acid Dry
Class:	5.1
Pkg. Group:	II
P.I.N./UN:	2465 1kg & under Ltd. quantity

SECTION VIII

FIRST AID MEASURES

SKIN: Wash thoroughly with soap and water. Should irritation persist, contact a physician.

EYE: Flush eyes with plenty of water for 15 minutes. Seek medical attention.

INHALATION: Remove person to fresh air. Call a physician.

INGESTION: Drink 2 or 3 glasses of water or milk. Do not induce vomiting. Contact a physician.

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

MATERIAL SAFETY DATA SHEET

SECTION IX

PREPARATION DATE OF M.S.D.S.

PREPARED BY (Group, Department, etc.): PLANT CHEMIST

TELEPHONE: (905) 332-6626

PREPARATION DATE: January 1, 1996

DATE OF LATEST REVISION/REVIEW: September 2, 2009

ADDITIONAL NOTES OR REFERENCES:

While Capo Industries Ltd. believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Capo Industries Ltd. assumes legal responsibility. They are offered solely for your consideration and verification. Any use of this data and information must be determined by the user to be in accordance with applicable Federal, Provincial and local laws and regulations.