



HOME OFFICE: 4301 DOMINION BLVD.
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PRODUCT SAFETY DATA SHEET

SECTION I

TRADE NAME CHEMICAL TREATMENT C-2185	EMERGENCY TELEPHONE NO. (804) 257-7792
CHEMICAL NAME AND SYNONYMS Trichloro-s-triazinetrione	

SECTION II HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENT(S)	CAS NO.	%	ORAL LD ₅₀	DERMAL LD ₅₀	TLV (Units)
Trichloroisocyanuric acid	87-90-1	96-100	490 mg/kg (Rats)	>2 g/kg (Rabbits)	NE
Dichloroisocyanuric acid	2782-57-2	0-4	NIF	NIF	NE

SECTION III PHYSICAL DATA

BOILING POINT (°F)	NAP	SPECIFIC GRAVITY (H ₂ O = 1) at 20°C	NAP
VAPOR PRESSURE (mm Hg.) at 20°C	NAP	PERCENT VOLATILE BY WEIGHT(%)	NAP
VAPOR DENSITY (AIR=1)	NAP	EVAPORATION RATE ()	NAP
SOLUBILITY IN WATER at 25°C	1.2 %	pH 1% solution @ 25°C	2.7 - 2.9
APPEARANCE AND ODOR: White crystalline solid in 7 oz. tablet; chlorine odor.			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) None	FLAMMABLE LIMITS % by Vol.	LeI None	Uel None
EXTINGUISHING MEDIA (See Page 4)			
SPECIAL FIRE FIGHTING PROCEDURES (See Page 4)			
UNUSUAL FIRE AND EXPLOSION HAZARDS Small quantities of water will react with this material to form hazardous quantities of nitrogen trichloride which is violently explosive.			

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	OSHA TLV	NE	ACGIH TLV	NE
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EFFECTS OF OVEREXPOSURE

Inhalation of this material is irritating to the nose, mouth, throat, and lungs. It may also cause burns to the respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage.

HEALTH EFFECTS

No expected effects from chronic exposure at use concentration.

PRIMARY ROUTE OF ENTRY

Inhalation
Skin
Eye
Ingestion

EMERGENCY FIRST AID PROCEDURE

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Seek medical attention. **SKIN:** In case of contact immediately wash with plenty of water while removing contaminated clothing. Seek medical advice. Wash and decontaminate clothing before reuse. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician. **INGESTION:** If swallowed, do not induce vomiting. Give large quantities of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

STABILITY	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STABLE</td> <td style="width: 50%; text-align: center;">√</td> </tr> <tr> <td>UNSTABLE</td> <td></td> </tr> </table>	STABLE	√	UNSTABLE		CONDITIONS TO AVOID	Contamination with small amounts of water, excessive heat.
STABLE	√						
UNSTABLE							
INCOMPATABILITY (Materials to Avoid)		Nitrogen containing compounds, acids, bases, and other oxidizers.					
HAZARDOUS DECOMPOSITION PRODUCTS		Chlorine-containing gases can be produced, traces of phosgene can be liberated at high temperatures >400°F.					
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID					
MAY OCCUR	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">NO</td> <td style="width: 50%; text-align: center;">√</td> </tr> </table>	NO	√	None Known			
NO	√						

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Water Release - This material is heavier than water and soluble in water. Stop flow of material into water source as soon as possible. Begin monitoring for pH and available chlorine immediately.

Land spill - Do not contaminate with organic material or ammonia containing compounds. Clean up with clean, dry equipment and place in clean, dry container.

WASTE DISPOSAL METHOD

If this product becomes a waste, it meets the criteria of D001 as described under 40 CFR 261 and should be disposed of as such.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify Type)	At high use concentrations, wear a NIOSH/MSHA approved respirator equipped with chemical cartridge for protection against chlorine gas and a dust/mist type prefilter.		
EYE PROTECTION	Chemical splash goggles	SKIN PROTECTION	Neoprene gloves and boots
VENTILATION	Local mechanical exhaust	OTHER PROTECTION	Neoprene coveralls

SECTION IX SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN
IN HANDLING AND STORING**

Do not take internally. Avoid contact with skin, eyes, and clothing. Upon contact with skin or eyes, wash off with water.

OTHER PRECAUTIONS

Store in a clean dry well ventilated area. Keep away from incompatible chemicals. Do not store at temperatures above 60 Deg. C (140 Deg.F)

SECTION X MISCELLANEOUS DATA

NIF - No Information Found
NAP - Not Applicable

NA - Not Available

NE - Not Established



D.O.T. Shipping Class: Trichloroisocyanuric Acid, Oxidizer, UN 2468

This product does not contain any components listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

If this product contains a toxic chemical, subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372, it is listed in Section II of this Material Safety Data Sheet followed by two asterisks (**).

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, CHEMTREAT, INC. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will CHEMTREAT, INC. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATION OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

John A. Nygren/Technical Director

John A. Nygren

C-2185

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June 11, 1990

PREPARED BY _____

DATE _____



SAFETY DATA SHEET

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:

A thermal decomposition can be extinguished by flooding with copious amounts of water, or by isolating the decomposing material and allowing it to be consumed.

SPECIAL FIRE FIGHTING PROCEDURES:

Chlorine containing gases with traces of phosgene can be liberated at temperatures in excess of 400°F. Firefighters and others subjected to products of decomposition should wear full protective clothing and self-contained breathing apparatus. Do not use extinguishers containing ammonia compounds.