

# MATERIAL SAFETY DATA SHEET

## CHLORINATING 3" TABS

### SECTION I - IDENTIFICATION

MANUFACTURER'S NAME..... Haviland Consumer Products Incorporated  
 ADDRESS (STREET,CITY,STATE,ZIP) 421 Ann St., N.W., Grand Rapids, MI 49504  
 PHONE NUMBER..... (616) 361-6691  
 EMERGENCY PHONE NUMBER..... CHEMTREC (800) 424-9300  
 EFFECTIVE DATE..... 6/23/99  
 TRADE NAME..... CHLORINATING 3" TABS  
 CHEMICAL FAMILY..... Chlorinated Isocyanurates

### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	OSHA/PEL	ACGIH/TLV (Units)	PROD. CAS #
Trichloroisocyanuric Acid	Not Established	3 mg/m3=1ppm for chlorine gas STEL	87-90-1

### SECTION III - PHYSICAL DATA

BOILING POINT..... No Information Available  
 FREEZING POINT ..... 225-230oC(Decomposes)  
 VAPOR PRESSURE (mm Hg)..... No Information Available  
 VAPOR DENSITY (Air=1)..... No Information Available  
 SOLUBILITY IN H2O..... 12 g/liter at 25oC  
 APPEARANCE/ODOR..... White powder; Slight Chlorine Odor  
 SPECIFIC GRAVITY (H2O=1)..... No Information Available  
 PH..... 1% Solution: 2.7 - 3.3

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... Will Not Burn  
 LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable  
 UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable  
 EXTINGUISH MEDIA..... Water and CO2. Do not use powder based  
 on ammonium salt and halogenous  
 extinguishing media.  
 SPECIAL FIRE FIGHTING PROCEDURES... Extinguish with large quantites of  
 water(small amounts may aggravate  
 situation). Product is not flammable,  
 but may decompose at high  
 temperatures, thus emitting toxic  
 gases. If able, isolate unaffected  
 drums by taking them to a well  
 ventilated area to con sume. For small  
 fires CO2 extinguishers can be used.

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UNUSUAL FIRE HAZARD..... Small quantities of water react with product's chlorinating composition to form hazardous quantities of nitrogen trichloride which is violently explosive. May give off toxic gases - Must use large amounts of water.

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## SECTION V - HEALTH HAZARD DATA

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CARCINOGENICITY..... None

NTP..... No

IARC..... No

OVER EXPOSURE EFFECTS..... Eventual ulceration to skin.

PRIMARY ROUTE(S) OF ENTRY..... Skin Contact

FIRST AID PROCEDURES..... In case of eye contact: Flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water; wash contaminated clothing before reuse. If irritation persists, call a doctor. If inhaled: Remove to fresh air. If swallowed: Drink milk, water or raw egg whites. Get medical attention. Do not induce vomiting.

EXPOSURE AGGRAVATED MEDICAL CONDITIONS None Currently Known

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## SECTION VI - REACTIVITY DATA

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CHEMICAL STABILITY..... Stable

CONDITIONS TO AVOID..... Humidity and temperatures over 50oC.

INCOMPATIBLE MATERIALS..... Product attacks metal in general. It reacts with water in small quantities, oxidant and reducing agents, acids, alkalis, nitrogen products, ammonium salts, urea, amines, quaternary ammonium derivatives, oils, fats, peroxides, anionic tensioactives, etc.

DECOMPOSITION PRODUCTS..... In combination with the above mentioned products, it decomposes and gives off a great quantity of heat, chlorine, nitrogen trichloride etc. with subsequent danger of explosion if nitrogen trichloride level is high enough.

HAZARDOUS POLYMERIZATION..... Will Not Occur

POLYMERIZATION AVOID..... Not Applicable

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## SECTION VII - SPILL OR LEAK PROCEDURE

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FOR SPILL ..... Prevent product from reaching sewage or superficial waters. If product reaches a natural water-course, warn civil protection authorities. Sweep and fully collect spilled product. Can be re-used if not contaminated. Contaminated product must be destroyed.

WASTE DISPOSAL METHOD..... Use with sodium carbonate & sodium sulphite to neutralize. After dilute with alot of water and can be poured into sewer, according to local, federal and state regulations. Dry product mix with solvents and incinerate with wash for chlorine combustion gas.

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## SECTION VIII - SPECIAL PROTECTION

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RESPIRATORY PROTECTION..... NIOSH approved full facepiece with airborne exposure limits are exceeded.

VENTILATION..... To maintain dusts below limits.

PROTECTIVE GLOVES..... Rubber or other impervious materials.

EYE PROTECTION..... Chemical splash proof goggles.

OTHER PROTECTIVE EQUIPMENT..... Suitable working clothes fully protecting the body. A safety shower and eye bath should be available. For operations where spills or splashing may occur, use an impervious body covering and boots.

HANDLING AND STORAGE..... Do not produce dust. Handle far from other chemicals. Keep from ignition sources. Keep in closed container (not metallic or wooden) in a fresh, dry, ventilated place. If stored near other products, place near exit door for quick removal if necessary.

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## SECTION IX - SPECIAL PRECAUTIONS

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HAZARD CLASS..... Oxidizer, 5.1, PG II

DOT SHIPPING NAME..... Trichloroisocyanuric Acid, Dry, Mixture

UN NUMBER..... UN2468

REPORTABLE QUANTITY (RQ)..... Not Listed

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REFERENCES WARNING!! STRONG OXIDIZING AGENT - USE DRY, CLEAN UTENSILS -  
KEEP AWAY FROM NATURALLY OCCURING ORGANIC MATERIALS.

ZZ1H3TAB

Product is toxic for fishes and algae. It may give off chlorine in contact  
with other products. Do not flush to waterways. EPA REG.# 57787-15