

# MSDS Document

## Product 3" MULTI TABS

### 1. Chemical Product and Company Identification

Trade Name of this Product 3" MULTI TABS

MSDS ID MSDS2689

**Manufacturer**

Haviland Consumer Products, Inc.  
421 Ann Street N.W.  
Grand Rapids, MI 49504

**Phone Number**

(616) 361-6691

**Emergency Phone**

CHEMTREC (800) 424-9300

CHEMTREC International (703) 527-3887

**Revision Date** 00/00/00

Health:	3
Fire:	0
Reactivity:	2
Specific	

### 2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Trichloroisocyanuric acid	87-90-1	91.5 %	0.5 ppm Cl. gas	Not Established	1 ppm Cl. gas
Sodium tetraborate pentahydrate	12179-04-3	5 %	1 mg/m3	10 mg/m3 total dust	

### 3. Hazard Identification

**Emergency Overview**

Harmful by ingestion. Causes burns in contact with the skin and eyes.

**Health Effects**

Contact with the skin may cause redness, strong burning sensation, with eventual ulceration. Contact with the eyes may cause pain and tears. Impaired vision. Ingestion may cause abdominal pain, nausea, general weakness. Inhalation may cause sore throat, cough, nausea.

**Carcinogenicity**

None of the components present in this material are listed by IARC or NTP as a carcinogen.

**Reproductive Effects**

None known

**Routes of Entry**

Inhalation, Ingestion, Skin or Eye Contact

**4. First Aid Information**

**Skin Contact**

Flush with water for at least 15 minutes while removing contaminated clothing. If irritation persists, get medical attention.

**Eye Contact**

Flush immediately with plenty of water for at least 15 minutes, get medical attention.

**Ingestion**

Call a physician immediately. Do not induce vomiting. Dilute by drinking water or milk. Never give anything by mouth to an unconscious person.

**Inhalation**

Fresh air should alleviate any respiratory discomfort. If breathing difficulties develop or persist, get medical attention.

**5. Fire Fighting Measures**

**Flash Point** N/A

**Extinguishing Media**

Use water. Do not use dry chemical extinguisher containing ammonia compounds.

**Special Fire Fighting Procedures**

Material does not burn but is an oxidizing agent and will support combustion of other materials. Use breathing apparatus and protective clothing. Use flooding amounts of water.

**Unusual Fire Hazard**

None known.

**6. Accidental Release Measures**

**Spill and Leak Procedures**

Sweep and fully collect the spilled product. If there is some non-polluted product left, separate it from the rest and collect it into a clean container with inner plastic bag. Contaminated product must be destroyed.

**7. Handling and Storage**

**Handling Procedures**

Use with adequate ventilation. Avoid breathing dusts. Do not get in eyes, on skin, or on

clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

#### **Storage Procedures**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid dust formation and control ignition sources.

### **8. Exposure Controls and Personal Protection**

#### **Engineering Controls**

Use in well ventilated areas.

#### **Eye Protection**

Chemical safety goggles

#### **Protective Gloves**

Rubber or other impervious materials.

#### **Respiratory Protection**

When conditions cause excessive airborne levels of dusts, use NIOSH-approved respiratory equipment with full mask equipped with suitable filter (combined for dust and halogens).

#### **Other Protective Equipment**

Flowing water source should be available. Prevent contact with skin & clothing by using protective garments.

### **9. Physical and Chemical Properties**

<b>Physical State</b>	Solid
<b>Color/Appearance</b>	White powder compressed into tablets
<b>Odor</b>	Slight chlorine odor
<b>pH</b>	2.7 - 3.3 (1% solution)
<b>Boiling/Cond. Point</b>	Not Applicable
<b>Melting/Freezing Point</b>	225°C (decomposes)
<b>Solubility</b>	12 g/liter @ 25°C
<b>Vapor Density</b>	Not Applicable
<b>Vapor Pressure</b>	Not Applicable

### **10. Stability and Reactivity**

#### **Chemical Stability**

Stable under normal conditions

#### **Conditions to Avoid**

Humidity and temperatures over 40°C.

#### **Incompatible Materials**

Product attacks metals in general. It reacts with water, oxidant and reducing agents, acids, alkalis, nitrogen products, ammonium salts, urea, amines, quaternary ammonium derivatives, oils, fats, peroxides, cationic tensioactives, etc.

#### **Hazardous Decomposition Products**

In combination with the above mentioned products, it decomposes and gives off a great

quantity of heat, chlorine, nitrogen trichloride, chlorine oxides, etc. with subsequent danger of explosion.

**Hazardous Polymerization**

Will not occur.

**11. Toxicological Information**

Acute LD50 oral rat: 406 mg/kg

**12. Ecological Information**

Toxic for fish and algae. Do not pour directly to rivers, lakes, etc. Product hydrolyses in diluted aqueous solution giving off hypochlorous and cyanuric acids. The first one is transformed into chloride with time and the action of the sun rays. The second one is biodegradable and practically non toxic. Therefore, the diluted solution can be directly poured to the sewer system, depending on the applicable local regulations, provided the chlorine content is of 0 ppm.

**13. Disposal Considerations**

**Waste Disposal**

Add 2.5 kg of sodium carbonate to 10 liters of water, stir and dissolve. Slowly (in about 0.5 hours) add 1 kg of product. Let stand for at least 10 hours. Slowly add (in about 0.5 hours) while stirring 0.5 kg of sodium sulphite. Then check if there is some free-chlorine left. If necessary add more sodium sulphite until chlorine value is 0. Neutralize if necessary. The above operations should be carried out in the open air wearing suitable equipment, as chlorine gas may be released.

The waste obtained, diluted in a great quantity of water can be poured to the sewer, according to the local regulations, as it only contains a mixture of salts and cyanuric acid which is biodegradable. Another disposal method for dry product is by incineration mixing product with solvents. The incinerator should be provided with a washing system for chlorine combustion gases. Disposal of product should be carried out according to local, state, and federal regulations on industrial waste disposal.

**14. Transportation Information**

**DOT Shipping Name**

Trichloroisocyanuric acid, dry, mixture

**Hazard Class**

5.1, Oxidizer

**UN Number**

UN2468

**Packing Group**

PG II

## 15. Regulatory Information

### **TSCA**

Hazardous Component(s) subject to reporting on the TSCA List.

### **WHMIS**

Hazardous Component(s) subject to WHMIS Ingredient Disclosure.

## 16. Other Information

EPA Reg. No. 57787-31

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