

**MATERIAL SAFETY DATA SHEET**

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Hazard Rating Scale
4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

Health: 3
Fire: 1
Reactivity: 2

Section 1 - IDENTIFICATIONProduct Name: **#498 – Powdered Bleach**

Date Prepared: 3-24-08

**Proper D.O.T. Shipping Name: Dichloroisocyanuric Acid, Dry, 5.1, UN2465, PGII**Section 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

(Hazardous Ingredients as Defined by OSHA, 29 CFR 1910.1200)

<u>% By Wgt. Material</u>	<u>PEL</u>	<u>T.L.V.</u>	<u>C.A.S. No.</u>
<25% Sodium Dichloroisocyanurate *	N/E	N/E	2893-78-9

The balance of ingredients are not considered to be hazardous within the meaning of OSHA Hazard Communication Standard.

ITEMS MARKED \* ARE SARA TITLE III SEC 311/312 REPORTABLES. ALL INGREDIENTS ARE ON TSCA INVENTORY.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
SPECIFIC GRAVITY:	N/A
MELTING POINT:	N/E
SOLUBILITY IN WATER:	Complete
APPEARANCE AND ODOR:	White Powder, Chlorine Odor
pH	N/A

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A FLAMMABLE LIMITS: N/A

**THIS PRODUCT, IF HEATED BY AN OUTSIDE SOURCE TO TEMPERATURES ABOVE 240 C. (464 F.), WILL UNDERGO VIGOROUS SELF-SUSTAINING DECOMPOSITION WITH THE EVOLUTION OF HEAT AND DENSE NOXIOUS GASES. IN ADDITION, WHEN IN CONTACT WITH ANOTHER COMBUSTIBLE MATERIAL, THIS PRODUCT WILL INCREASE THE BURNING RATE OF THE COMBUSTIBLE MATERIAL. WHEN IGNITED, WILL BURN WITH THE EVOLUTION OF NOXIOUS CHLORINE CONTAINING GASES.**

**EXTINGUISHING MEDIA** - DO NOT ATTEMPT TO EXTINGUISH THE FIRE WITHOUT A SELF-CONTAINED BREATHING APPARATUS (SCBA). DO NOT LET THE FIRE BURN. FLOOD WITH COPIOUS AMOUNTS OF WATER. DO NOT USE ABC OR OTHER DRY CHEMICAL EXTINGUISHER SINCE THERE IS THE POTENTIAL FOR A VIOLENT REACTION.

**SPECIAL FIRE FIGHTING PROCEDURES** - FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS (SCBA). USING A 10% SOLUTION OF SODIUM CARBONATE, THOROUGHLY DECONTAMINATE FIRE FIGHTING EQUIPMENT INCLUDING ALL FIRE FIGHTING WEARING APPAREL AFTER THE INCIDENT.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** - NITROGEN TRICHLORIDE CAN BE GENERATED SLOWLY BY THE REACTION OF SMALL QUANTITIES OF WATER WITH A HIGH CONCENTRATION OF THIS PRODUCT. NITROGEN TRICHLORIDE CAN PRESENT AN EXPLOSION HAZARD. IMMEDIATELY AFTER A FIRE HAS BEEN EXTINGUISHED, CHECK FOR WET OR DAMP MATERIAL. ANY SPILLED MATERIAL FROM BURNED OR BROKEN CONTAINERS SHOULD BE ASSUMED CONTAMINATED. NEUTRALIZE TO A NON-OXIDIZING MATERIAL FOR SAFE DISPOSAL. DO NOT ATTEMPT TO RE-CLOSE BROKEN DRUMS, EVEN FOR MOVEMENT TO THE DISPOSAL AREA. THEY SHOULD BE LEFT OPEN TO DISPERSE ANY NITROGEN TRICHLORIDE THAT MAY FORM. BULGING CONTAINERS REQUIRE EXTREME CARE. CONTACT THE FIRE DEPARTMENT.

SECTION 5 - REACTIVITY DATA

**INCOMPATIBILITY:** THIS MATERIAL IS A STRONG OXIDIZING AGENT. THE PREPARATION OF CONCENTRATED SOLUTIONS OR SLURRIES (10% OR GREATER) IS NOT RECOMMENDED. ALSO AVOID CONTACT WITH EASILY OXIDIZABLE ORGANIC MATERIAL; AMMONIA, UREA, OR SIMILAR NITROGEN CONTAINING COMPOUND; INORGANIC REDUCING COMPOUND; FLOOR SWEEPING COMPOUNDS; CALCIUM HYPOCHLORITE; ALKALIS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CHLORINE-CONTAINING GASES CAN BE PRODUCED.**HAZARDOUS POLYMERIZATION** - WILL NOT OCCURSECTION 6 - HEALTH HAZARD DATA**ROUTES OF ENTRY:** INHALATION, SKIN, INGESTION, EYE CONTACT

**HEALTH HAZARDS (ACUTE AND CHRONIC):**

**ACUTE:** ON CONTACT WITH MOISTURE, THIS MATERIAL READILY HYDROLYZES TO HYPOCHLOROUS ACID AND CYANURIC ACID. THE TISSUE DAMAGE RESULTING FROM CONTACT IS CONSIDERED TO RESULT, IN PART, FROM ITS HYPOCHLOROUS ACID DECOMPOSITION PRODUCTS, MAY CAUSE GASTROINTESTINAL AND RESPIRATORY TRACT IRRITATION. MAY BE SEVERELY IRRITATING OR CORROSIVE TO EYES AND SKIN.

**CHRONIC:** NONE KNOWN

**CARCINOGENICITY:** NTP, IARC MONOGRAPHS, OSHA REGULATED? NO

**SIGNS AND SYMPTOMS OF EXPOSURE - SKIN AND EYE IRRITANT.** BREATHING DUST OR FUMES MAY BE IRRITATING TO RESPIRATORY TRACT. INGESTION WILL CAUSE IRRITATION.

***EMERGENCY AND FIRST AID PROCEDURES:***

**EYES:** OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY THEN SEEK MEDICAL ATTENTION. IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER COMPLETE IRRIGATION OF ALL EYE AND LID TISSUE. WASHING EYES WITHIN ONE MINUTE IS ESSENTIAL TO ACHIEVE MAXIMUM EFFECTIVENESS. SEEK MEDICAL ATTENTION IMMEDIATELY.

**SKIN:** IMMEDIATELY BRUSH OFF EXCESS CHEMICAL AND FLUSH AFFECTED AREA WITH RUNNING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION OCCURS, GET IMMEDIATE MEDICAL ATTENTION.

**SWALLOWING:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON, IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. (IF AVAILABLE, GIVE SEVERAL GLASSES OF MILK). IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAYS CLEAR. SEEK MEDICAL ATTENTION IMMEDIATELY.

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE TRAINED PERSON ADMINISTER OXYGEN. IF RESPIRATION STOPS, GIVE MOUTH-TO-MOUTH RESUSCITATION. GET IMMEDIATE MEDICAL ATTENTION.

**SECTION 7 – STORAGE, SPILLS AND DISPOSAL**

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED - SHOVEL UP DRY CHEMICAL INTO AN EMPTY, CLEAN, DRY, MOISTURE FREE CONTAINER WITH A LID, DO NOT ADD WATER TO SPILLED MATERIAL.**

**WASTE DISPOSAL METHOD - MATERIAL THAT CANNOT BE USED SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.**

**PRECAUTIONARY STATEMENTS:**

**-DO NOT GET IN EYES.**

**-AVOID BREATHING DUST.**

**-DO NOT TAKE INTERNALLY.**

**-KEEP CONTAINER CLOSED**

**-WASH THOROUGHLY AFTER HANDLING**

**-DO NOT MIX WITH ANY OTHER PRODUCT OR MATERIAL**

**-USE WITH ADEQUATE VENTILATION**

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION - NORMALLY NOT NEEDED**

**VENTILATION - USE ADEQUATE VENTILATION**

**PROTECTIVE GLOVES - RUBBER OR PVC**

**EYE PROTECTION - OSHA APPROVED CHEMICAL SAFETY GOGGLES WITH SIDE SHIELDS.**

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT - APRON IF DESIRED.**

Sodium Dichloroisocyanuric Acid may be reportable under SARA Title III regulatory requirements.

See 40 CFR, Part 370 for reporting requirements.

N/A = Not Applicable N/E = Not Established

Prepared By: Cindy Schroeder, Director of Research