

Material Safety Data Sheet



ULTRA SHOCK PLUS

SECTION I - IDENTIFICATION

MANUFACTURER'S NAMEHaviland Consumer Products, Inc.
MANUFACTURER'S ADDRESS421 Ann St., N.W., Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBERCHEMTREC (800) 424-9300
EFFECTIVE DATE.....1/16/04
TRADE NAME.....**ULTRA SHOCK PLUS**
CHEMICAL FAMILY.....Inorganic chlorine/borate

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Calcium Hypochlorite	2 mg/m3	Not Established	7778-54-3
Sodium Tetraborate Pentahydrate	10 mg/m3 (total dust)	1 mg/m3	12179-04-3

SECTION III - PHYSICAL DATA

BOILING POINT Not Applicable
FREEZING POINT Not Established
VAPOUR PRESSURE Not Applicable
VAPOUR DENSITY (air=1) Not Applicable
SOLUBILITY IN H2O..... Soluble
ODOUR AND APPEARANCE White Powder; Slight Chlorine Odor
SPECIFIC GRAVITY Not Applicable
pH..... Alkaline

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATIONNone
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
MEANS OF EXTINCTION.....WATER ONLY! Smothering is ineffective, product supplies own oxygen.
SPECIAL FIRE FIGHTING PROCEDURES.....In case of fire, soak (flood) with water only! Fire-fighters must wear NIOSH/MSHA approved, pressure demand, self-contained breathing apparatus with full-face piece for possible exposure to hazardous gases.
UNUSUAL FIRE HAZARD.....Product decomposes at approximately 338-356°F (170-180°C) releasing oxygen gas. Container may rupture.

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SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS	None
NTP?.....	No
IARC MONOGRAPHS?.....	No
OVER EXPOSURE EFFECTS	May be fatal if swallowed. Harmful if product is inhaled in high concentrations. Causes skin, eye, digestive tract, and respiratory tract burns.
PRIMARY ROUTE(S) OF ENTRY	Inhalation, Eye and Skin Contact, Ingestion
SPECIFIC FIRST AID PROCEDURES	Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. Eye/Skin Contact: Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Ingestion: Give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
EXPOSURE AGGRAVATED MEDICAL CONDITIONS	Asthma, respiratory and cardiovascular disease

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY	Unstable above 177°C.
CONDITIONS TO AVOID	Avoid contamination or excessive heat above 177°C.
INCOMPATIBLE MATERIALS.....	Avoid contact with acids, combustible materials, organics, and reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS.....	Acid or ammonia contamination will release toxic gases. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.
HAZARDOUS POLYMERIZATION	Will Not Occur
POLYMERIZATION AVOID	Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES.....	Use extreme caution in handling. Contamination with organic or combustible materials may cause fire or decomposition. If this occurs, immediately douse with plenty of water, otherwise sweep up all visible material using a dry clean shovel and dissolve material in water. This material should be used immediately in normal application. If this is not possible, neutralize dissolved material with one pint of 35% hydrogen peroxide per pound of calcium hypochlorite and dilute with lots of water.
WASTE DISPOSAL.....	Dispose of in accordance with the Clean Air Act, Clean Water Act, the Resource Conservation and Recovery Act, as well as any state, local or federal regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION	If dusty conditions are encountered, use NIOSH/MSHA approved respirator with acid gas cartridge and dust prefilter.
VENTILATION	Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs. Otherwise, ensure good general ventilation.
PROTECTIVE GLOVES.....	Wear natural or synthetic rubber gloves.
EYE PROTECTION.....	Chemical safety goggles
OTHER PROTECTIVE EQUIPMENT	A safety shower and eye bath should be available. Boots, aprons, or chemical suits should be used to prevent skin contact.
HANDLING PROCEDURES AND EQUIPMENT	Keep in original container in a cool dry place. Keep container closed when not in use. Keep away from heat sources, sparks, flames, direct sunlight, and other sources of heat. Use only a clean, dry scoop made of metal or plastic

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each time this product is taken from container. Do not add this product to any dispensing device containing remnants of any other product, this may cause violent reactions of fire or explosion. Add this product only to water. Store out of reach of children.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS OXIDIZER, 5.1, PG II
DOT SHIPPING NAME Calcium hypochlorite mixture, dry, with more than 39% available Chlorine
..... (Quantities under 2 pounds may be shipped ORM-D)
UN NUMBER UN1748
REPORTABLE QUANTITY (RQ) 17 lb.

REFERENCES

ULTRA SHOCK PLUS
HMIS H-3 F-0 R-1
EPA REGISTRATION # 57787-29