

Material Safety Data Sheet



CALCIUM SHOCK

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.....4/21/03
TRADE NAME.....**CALCIUM SHOCK**
CHEMICAL FAMILY.....Salt of Hypochlorous Acid

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Calcium Hypochlorite	Not Established	Not Established	7778-54-3

SECTION III - PHYSICAL DATA

BOILING POINT Not Applicable
FREEZING POINT Decomposes at above 100°C
VAPOUR PRESSURE Not Applicable
VAPOUR DENSITY (air=1) Not Applicable
SOLUBILITY IN H₂O..... 100% to 1 gm/l - Effective solubility is higher.
ODOUR AND APPEARANCE Off White, Free Flowing Granular; Chlorine Odor
SPECIFIC GRAVITY 2.00 - 2.2 @ 20°C
pH..... 5% Solution: 11.5

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATIONNot Flammable/Will Not Burn
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
MEANS OF EXTINCTION..... Will support combustion; in case of fire, drench with large amounts of water. Cool surrounding area with spray.
SPECIAL FIRE FIGHTING PROCEDURES..... Releases chlorine gas when decomposing above 356oF. Breathing equipment may be needed.
UNUSUAL FIRE HAZARD..... Releases chlorine gas when decomposing above 356oF. Contamination may support combustion.

SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS None
NTP?..... No
IARC MONOGRAPHS?..... No
OVER EXPOSURE EFFECTS Skin irritation may occur from repeated or prolonged skin contact.
PRIMARY ROUTE(S) OF ENTRY Inhalation, Eye and Skin Contact
SPECIFIC FIRST AID PROCEDURES If inhaled: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. In case of 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

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EXPOSURE AGGRAVATED MEDICAL
CONDITIONS

before reuse. Ingestion: Do not induce vomiting. Call a Physician
Immediately.
None Currently Known

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID Heat, open flames, sparks, at temperatures above 100oC Calcium Hypochlorite
can decompose violently releasing heat, chlorine and oxygen gas.
INCOMPATIBLE MATERIALS Household soaps, suntan lotion, paint products, solvents, acids, beverages,
ignition sources, combustible materials, dirt, dirty rags, organic materials and
other pool chemicals. Should not be mixed with anything but water.
HAZARDOUS DECOMPOSITION PRODUCTS Chlorine and oxygen.
HAZARDOUS POLYMERIZATION Will Not Occur
POLYMERIZATION AVOID Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES Restrict access to area until completion of clean up. Wear adequate personal
protective equipment. Extinguish or remove all ignition sources. Ventilate
area. Sweep up spilled material; do not re-package. Shovel into clean, dry,
labeled containers. Care should be taken while handling contaminated
materials, due to fire risk. Flush area with plenty of water.
WASTE DISPOSAL Flush with water immediately.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION Dust mask or NIOSH approved canister type respirators suitable for chlorine.
VENTILATION To maintain vapors below limits.
PROTECTIVE GLOVES Rubber or other impervious materials.
EYE PROTECTION Chemical splash proof goggles.
OTHER PROTECTIVE EQUIPMENT 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 PROCEDURES AND EQUIPMENT Avoid making dust. Avoid mixing pure material with contaminated material.
Use smallest possible amounts in designated areas with adequate ventilation.
Store in original container. Store tightly closed in a clean, cool, well ventilated
area. Keep out of direct sunlight.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS OXIDIZER, 5.1, PG II
DOT SHIPPING NAME CALCIUM HYPOCHLORITE, HYDRATED
UN NUMBER UN2880
REPORTABLE QUANTITY (RQ) 10 lb.

REFERENCES

ZZ1ULSHK EPA REG.# 57787-18 HMIS
RATING: H-3, F-0, R-1