

Material Safety Data Sheet



CALCIUM HYPOCHLORITE GRANULES

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 NUMBER.....CHEMTREC (800) 424-9300
EFFECTIVE DATE.....7/15/04
TRADE NAME.....**CALCIUM HYPOCHLORITE GRANULES**
CHEMICAL FAMILY.....Hypochlorite

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 POINTDecomposes at 180°C
FREEZING POINTNot Established
VAPOUR PRESSURE.....Not Applicable
VAPOUR DENSITY (air=1)Not Applicable
SOLUBILITY IN H₂O.....217 g/l at 27°C
ODOUR AND APPEARANCEOff White, Free Flowing Granular; Chlorine Odor
SPECIFIC GRAVITY2.35
pH.....1% Solution: 11

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 ineffective - product supplies own oxygen.
SPECIAL FIRE FIGHTING PROCEDURES.....Product decomposes at 180°C releasing oxygen gas. Container may rupture. Fire fighters must wear NIOSH approved, pressure demand, self-contained breathing apparatus with full-face piece for possible exposure to hazardous gases.
UNUSUAL FIRE HAZARD.....May cause fire or explosion if mixed with other chemicals. Do not reuse containers. Residual material remaining in empty drum can react to cause fire.

SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTSNone
NTP?.....No
IARC MONOGRAPHS?.....No
OVER EXPOSURE EFFECTSCorrosivity to skin and eyes.
PRIMARY ROUTE(S) OF ENTRYInhalation, Eye and Skin Contact
SPECIFIC FIRST AID PROCEDURESIf 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

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

EXPOSURE AGGRAVATED MEDICAL
CONDITIONS

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Unstable above 177°C.
CONDITIONS TO AVOID Avoid contamination. Excessive heat above 177°C.
INCOMPATIBLE MATERIALS Combustible materials. Organics. 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 Sweep up spilled material; do not re-package. Flush area with plenty of water.
WASTE DISPOSAL Carefully neutralize dissolved material by adding hydrogen peroxide, then dilute with plenty of water and flush to sewer. Comply with all local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION If dusty conditions are encountered, use NIOSH approved respirator with acid gas cartridge and dust pre-filter.
VENTILATION None required unless dusty conditions are encountered.
PROTECTIVE GLOVES Natural or synthetic rubber.
EYE PROTECTION Chemical safety glasses.
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 Store in a cool, dry, well-ventilated place. Keep in original container. Keep container closed when not in use. Keep away from sparks, flames, direct sunlight, and other sources of heat. Use only a clean, dry scoop made of metal or plastic each time product is taken from the container. Do not add this product to any dispensing device containing residue from other products. That may cause a violent reaction. Add this product only to water. Do not reuse container.

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

ZZ1CALHY
HMIS H-3 F-0 R-1 (Oxidizer)
EPA REG.# 57787-18