

# Material Safety Data Sheet



## CALCIUM HYPOCHLORITE GRANULES

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### SECTION I - IDENTIFICATION

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MANUFACTURER'S NAME .....Haviland Consumer Products, Inc.  
MANUFACTURER'S ADDRESS .....421 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

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### SECTION II - HAZARDOUS INGREDIENTS

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

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### SECTION III - PHYSICAL DATA

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BOILING POINT .....Decomposes at 180°C  
FREEZING POINT ..... Not Established  
VAPOUR PRESSURE..... Not Applicable  
VAPOUR DENSITY (air=1) ..... Not Applicable  
SOLUBILITY IN H<sub>2</sub>O..... 217 g/l at 27°C  
ODOUR AND APPEARANCE ..... Off White, Free Flowing Granular; Chlorine Odor  
SPECIFIC GRAVITY ..... 2.35  
pH..... 1% Solution: 11

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASHPOINT AND METHOD OF DETERMINATION .....None  
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.

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### SECTION V - HEALTH HAZARD DATA

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CARCINOGENICITY, REPRODUCTIVE EFFECTS ..... None  
NTP?..... No  
IARC MONOGRAPHS?..... No  
OVER EXPOSURE EFFECTS ..... Corrosivity to skin and eyes.  
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

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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

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## SECTION VI - REACTIVITY DATA

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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

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## SECTION VII - SPILL OR LEAK PROCEDURE

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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.

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## SECTION VIII - SPECIAL PROTECTION

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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.

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## SECTION IX - SPECIAL PRECAUTIONS

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

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REFERENCES

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