

## Material Safety Data Sheet

REC'D APR 27 2009

**HAVILAND**

## BLEACH (SODIUM HYPOCHLORITE)

## SECTION I - IDENTIFICATION

MANUFACTURER'S NAME ..... Haviland Consumer Products Inc.  
 MANUFACTURER'S ADDRESS ..... 421 Ann St., NW, Grand Rapids, MI 49504  
 PHONE NUMBER ..... (616) 361-6691  
 EMERGENCY PHONE NUMBER ..... CHEMTREC (800) 424-9300  
 EFFECTIVE DATE ..... 7/16/04  
 TRADE NAME ..... BLEACH (SODIUM HYPOCHLORITE)  
 CHEMICAL FAMILY ..... Hypochlorite

## SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Sodium Hypochlorite (12.5% by wt. maximum)	Not Established	Not Established	7681-52-9

## SECTION III - PHYSICAL DATA

BOILING POINT ..... 230oF (110oC)  
 FREEZING POINT ..... -20 TO -30o F  
 VAPOUR PRESSURE ..... 14.5 @ 20oC  
 VAPOUR DENSITY (air=1) ..... No Information Available  
 SOLUBILITY IN H2O ..... Completely  
 ODOUR AND APPEARANCE ..... Light Yellow-Green Liquid; Pungent Chlorine-like Odor  
 SPECIFIC GRAVITY ..... 1.2-1.27  
 pH ..... Not Established

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION ..... Not Flammable  
 LOWER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
 UPPER EXPLOSIVE LIMIT (% by Volume) ..... Not Applicable  
 MEANS OF EXTINCTION ..... As for Surrounding Fires  
 SPECIAL FIRE FIGHTING PROCEDURES ..... Wear self-contained breathing apparatus where this material is involved in a fire.  
 UNUSUAL FIRE HAZARD ..... Bleach decomposes when heated; decomposition products may cause containers to rupture or explode. Vigorous reaction possible with organic materials or oxidizing agents may result in a fire.

## SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS ..... None  
 NTP? ..... No  
 IARC MONOGRAPHS? ..... No  
 OVER EXPOSURE EFFECTS ..... Redness of exposed tissues; irritation effects increase with strength of solution and time of exposure; constant eye and throat irritation.  
 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. Ingestion: Do not induce vomiting. Call

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EXPOSURE AGGRAVATED MEDICAL  
CONDITIONS

a Physician Immediately. In case of eye contact: Flush immediately with plenty of water for at least 15 minutes, holding eyelids apart and get medical attention immediately; for skin, wash thoroughly with soap and water; wash contaminated clothing before reuse.  
None Currently Known

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## SECTION VI - REACTIVITY DATA

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CHEMICAL STABILITY ..... Stable  
CONDITIONS TO AVOID ..... Heat, light exposure, heavy metal contamination.  
INCOMPATIBLE MATERIALS ..... Heavy metals (act as catalysts), reducing agents, organics, ethers, ammonia, acids.  
HAZARDOUS DECOMPOSITION PRODUCTS ..... Hypochlorous acid, chlorine, hydrochloric acid.  
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 ..... Contain spill. Flush with water to waste treatment system. Neutralize with reducing agents such as bisulfites or ferrous salt solutions.  
WASTE DISPOSAL ..... Reduce with bisulfites or ferrous salt solutions. Keep alkaline and dilute with water. Comply with all federal, state and local regulations.

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## SECTION VIII - SPECIAL PROTECTION

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RESPIRATORY PROTECTION ..... NIOSH approved respirator with acid type canister.  
VENTILATION ..... Not required for normal handling.  
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 ..... Store in vented, closed, clean, non-corrosive containers in a cool, dry area away from direct sunlight. Keep containers closed when not in use. Emptied containers retain product residue.

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## SECTION IX - SPECIAL PRECAUTIONS

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HAZARD CLASS ..... Corrosive Material, 8, PG II  
DOT SHIPPING NAME ..... Hypochlorite Solution  
UN NUMBER ..... UN1791  
REPORTABLE QUANTITY (RQ) ..... 1,000 lb.

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## REFERENCES

ZZ1BLCH  
HMIS H=3 F=0 R=2  
EPA REG. # 57787-4