

Material Safety Data Sheet



BLEACH (SODIUM HYPOCHLORITE)

SECTION I - IDENTIFICATION

MANUFACTURER'S NAMEHaviland Consumer Products Inc.
MANUFACTURER'S ADDRESS421 Ann St., NW, Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBERCHEMTREC (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 DETERMINATIONNot 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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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

EXPOSURE AGGRAVATED MEDICAL
CONDITIONS

SECTION VI - REACTIVITY DATA

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

SECTION VII - SPILL OR LEAK PROCEDURE

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.

SECTION VIII - SPECIAL PROTECTION

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.

SECTION IX - SPECIAL PRECAUTIONS

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

REFERENCES

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