



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: BLEACH
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MSDS Date: December 20, 2006
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Bleach
CHEMICAL NAME: Sodium hypochlorite solution
CHEMICAL FAMILY: Hypochlorite

DOT SHIPPING INFORMATION: Hypochlorite solution, 8,
UN 1791, PG III RQ = 100 lbs

SECTION II - HAZARDOUS INGREDIENTS

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Sodium Hypochlorite	7681-52-9	5.25	None determined.

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - PHYSICAL DATA

BOILING POINT (F): Approx. 212 **SPECIFIC GRAVITY:** 1.08
VAPOR PRESSURE (mm Hg): Essentially water **% VOLATILE, BY VOLUME:** Unknown
VAPOR DENSITY (air = 1): Essentially water **EVAPORATION RATE:** Unknown
SOLUBILITY IN WATER: Complete
APPEARANCE AND ODOR: A clear, greenish-yellow liquid with a chlorine odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: Nonflammable

FLAMMABLE LIMITS:
Lel: N/A Uel: N/A

EXTINGUISHING MEDIA:
Use any.

SPECIAL FIRE-FIGHTING PROCEDURES:
Self-contained breathing apparatus should be available.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Under some conditions, bleach could release chlorine gas and/or oxygen.



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SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS OR MATERIALS TO AVOID:

Heat causes the product to break down. Also, avoid contamination with acids, ammonia and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Chlorine, oxygen.

SECTION VI - HEALTH HAZARD DATA

CARCINOGENIC LISTING:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact: Can cause severe irritation and/or burns to eyes and skin.

Inhalation: Can be irritating to lungs and mucous membranes.

Ingestion: Harmful if swallowed. Can cause nausea, abdominal irritation and possible burns to the gastrointestinal tract.

SECTION VI - HEALTH HAZARD DATA (Cont'd)

STATEMENT OF PRACTICAL TREATMENT:

Contact: Flush exposed area thoroughly with water. For eyes promptly flush with cool water for at least 15 minutes and obtain medical attention.

Inhalation: Remove to fresh air. Treat symptomatically.

Ingestion: If conscious, give several glasses of milk or water, followed by vegetable oil, raw egg white or bread soaked on milk. DO NOT induce vomiting. Call a physician at once!



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SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Do not get in eyes or skin. Do not take internally. Avoid breathing vapor. Store in a cool, dry location. Use with good ventilation. Keep container lids tightly sealed.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Ventilate the area. Wear proper safety equipment. Flush small spills to sewer with large amounts of water (If permitted by local regulations). For larger spills, dike and recover the product into drums. If permitted, flush the residue to sewer with large amounts of water.

WASTE DISPOSAL METHOD:

Waste sodium hypochlorite (with a pH > 12.5) is an EPA hazardous waste due to corrosivity (D002) and must be disposed of at an EPA-approved disposal facility. Comply with all local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

None normally required.

VENTILATION:

Use adequate ventilation.

EYE PROTECTION:

Chemical-splash goggles.

SKIN PROTECTION:

Rubber gloves and rubber boots.

OTHER PROTECTIVE EQUIPMENT:

As needs to avoid skin and eye contact and to minimize exposure to vapor.

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.