

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTITY: Fox-Chlor Household Bleach & Various Private Labels

SECTION 1 - MANUFACTURER'S INFORMATION

Manufacturer: Fox Packaging Company
51 East Maryland Avenue
St. Paul, MN 55117-4615.

Telephone: (651) 489-8211

Facsimile: (651) 489-8247

Chemical Transportation Emergency Center (for immediate information about a chemical or to seek assistance from a manufacturer): 1-800-424-9300

National Response Center (to report spills of oil and hazardous material): 1-800-424-8802

Date Prepared: April 15, 1997

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Common Name: Bleach

Product Use: Used for laundering, caring for fabric, cleaning, disinfecting and deodorizing.

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Household Bleach & Various Private
Labels

Hazardous Component*	Approximate Composition	OSHA Permissible Exposure Limit**	ACGIH Threshold Limit Value*
Sodium Hypochlorite -CAS 7681-52-9 -UN 1791 (DOT Guide 60)	5.25%	Not Established	Not Established

* The hazardous component listed is not a known or suspected human carcinogen as listed or determined by the National Agency for Research on Cancer, National Toxicological Program "NTP Fifth Annual Report on Carcinogens," or International Agency for Research on Cancer (IARC) monograph reviews. In addition, it is not considered a carcinogen by the Occupational Safety and Health Administration or the National Institute for Occupational Safety and Health.

** This MSDS contains the 1989 PEL's and from the June 1993 Air Contaminants Final Rule, specified in Tables Z-1, Z-2 and Z-3 (Federal Register; 58(124):35338-35351; June 30, 1993).

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: This product has a pale yellow color and it has a bleach odor.

Boiling Point 1 Atmosphere: Decomposes

Flash Point: Not pertinent¹

Freezing Point: < -15°F

Physical State at 60°F and 1 Atmosphere: Liquid

Solubility in Water: Miscible

Specific Gravity: Approximately 1 (Water = 1)

Vapor Pressure: Not pertinent

Vapor Density: Not pertinent

¹Not Pertinent: The data item either has no real meaning or is not required for assessing a hazardous situation.

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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Autoignition Temperature: Not a flammable liquid

Flash Point: Not Pertinent

Flammable Limits: UEL - Not Applicable LEL - Not Applicable

Extinguishing Media: Dry chemical, carbon dioxide (CO₂), or regular foam

Special Fire Fighting Procedures:

- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters protective clothing will provide limited protection.

Unusual Fire and Explosion Hazards: May be a storage hazard due to evolution of oxygen. When heated to decomposition it emits toxic fumes of sodium monoxide (which is corrosive and can be irritating to skin, eyes, and mucous membranes) and chlorine (which also can be irritating to skin, eyes and mucous membranes).

SECTION 5 - REACTIVITY DATA

Incompatibility (Material to Avoid): Reacts to form explosive products with amines; ammonia salts (ammonium acetate, ammonium nitrate, ammonium oxalate, aziridine, methanol). Violent reaction with phenyl acetonitrile; cellulose; ethylenimine.

Hazardous Decomposition or By-products: When heated to decomposition it emits toxic fumes of sodium monoxide (which is corrosive and can be irritating to skin, eyes, and mucous membranes) and chlorine (which also can be irritating to skin, eyes and mucous membranes).

SECTION 6 - HEALTH HAZARD DATA

Routes of Entry: Can enter the body through inhalation, ingestion, and may cause skin irritation through prolonged contact.

Health Hazards and Signs and Symptoms of Exposure:

Eyes: Irritation, may be corrosive.
Skin: Irritation, may be corrosive through prolonged contact.
Inhalation: May produce severe bronchial irritation and pulmonary edema.
Ingestion: May cause corrosion of mucous membranes, esophageal or gastric perforation laryngeal edema.

Medical Conditions Generally Aggravated by Exposure: Ocular, respiratory, or dermal conditions may be aggravated by exposure.

Emergency and First Aid Procedures:

Eyes: Immediately flush with water 15 to 20 minutes, seek medical assistance.
Skin: Remove and isolate contaminated clothing and shoes. Immediately flush contaminated skin with water for at least 15 minutes.
Inhalation: Remove from source to fresh air, provide respiratory support as needed.
Ingestion: If conscious, have victim drink plenty of water or milk, and induce vomiting. If unconscious or if convulsing, do nothing except keep victim warm.

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SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Do not walk through spilled material; stop leak if it can be done without risk.
- For small spills of 55 gallons or less, take up with sand or other noncombustible absorbent material and place into containers for later disposal.
- Positive pressure self-contained breathing apparatus and chemical protective clothing is recommended for personnel involved in clean-up procedures with no fire.

Waste Disposal Method: Dispose of in accordance with federal, state and local regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Under normal use conditions (as a laundry cleaning aid), respiratory protection is not justified.

Protective Eye Wear: Splash resistant goggles are recommended when handling this material.

SECTION 9 - OTHER HAZARDOUS INFORMATION AND DEFINITIONS

OSHA PEL: The Occupational Safety and Health Administration's Permissible Exposure Limit, which is defined as the maximum concentration of a contaminant to which a normal healthy individual may be exposed 8-hours per day, 40-hours per week, without experiencing adverse health effects over a working lifetime.

ACGIH TLV: American Conference of Governmental Industrial Hygienist's Threshold Limit Value, similar to the OSHA PEL but not considered a legal standard.

MSDS Prepared by: Huntingdon Engineering and Environmental, Inc.

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