

MATERIAL SAFETY DATA SHEET from STEARNS PACKAGING CORPORATION

SECTION I—PRODUCT/MANUFACTURER'S IDENTITY

IDENTITY (As Used On Label and List):

Hypo-Chlor Formula 6.40

SYNONYMS: ST-1, ST-2047, ST-2055
Hypo-Chlor 6.4%

FORMULA ID NUMBER: SM-50
EPA REG #: 3640-64
NSF CERTIFIED: D2, 7/20/04

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HAZARD RATING	
0	Flammability
3	Health
1	Reactivity
Yes	Personal Protection

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

For Transportation Emergency Involving Hazardous Materials Contact: CHEM-TEL 1 (800) 255-3924

Shipping Information:

DOT SHIPPING NAME: Consumer Commodity, ORM-D
ST-1
DOT SHIPPING NAME: Hypochlorite solutions, (with 7% available chlorine) 8, UN 1791, PG III. Item 46380, Sub. 1, Class 55
DOT SHIPPING NUMBER: UN 1791; None for ORM-D
HAZARD LABEL: ORM-D: ST-1; Corrosive: ST-2047, ST-2055
HAZARD CLASS: ORM-D: ST-1; Corrosive, 8: ST2047, ST2055

SECTION II—HAZARDOUS INGREDIENTS OR IDENTITY INFORMATION

HAZARDOUS CHEMICAL IDENTITY &

CAS#	HAZARD	OSHA PEL	STEL	OTHER LIMITS	% (OPTIONAL)
▶ Sodium hypochlorite 7681-52-9	Corrosive Oxidizer	0.5 ppm* (8 hr - TWA)	1.0 ppm* 15 min STEL	Sodium hydroxide 2 mg/m ³	6.4

*NOTE: Exposure limits for chlorine given

SARA SECTION 313 TITLE III NOTIFICATION REQUIRED: No; CHEMICAL IN PRODUCT: None; CAS#: N/A; WEIGHT % OF CHEM: N/A

SECTION III—PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	Decomposes at 125°F	VAPOR PRESSURE (mm Hg):	Approx. that of air
SPECIFIC GRAVITY (WATER=1):	1.100	VAPOR DENSITY (AIR=1):	Approx. that of air
MELTING POINT:	Not Applicable	EVAPORATION RATE:	1.0 (Butyl Acetate=1)
SOLUBILITY IN WATER:	Complete	pH (CONCENTRATE):	Not Determined
APPEARANCE AND ODOR:	Light yellow, clear liquid Characteristic bleach odor	pH (1% SOLUTION):	Not Determined

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED):	None
EXTINGUISHING MEDIA:	Use any means suitable for extinguishing surrounding fire.
FLAMMABLE LIMITS:	LEL: Not Applicable UEL: Not Applicable
SPECIAL FIRE FIGHTING PROCEDURES:	Use full protective clothing and self-contained breathing apparatus.
FIRE & EXPLOSION HAZARDS:	Not considered to be a fire hazard. Not considered an explosion hazard.

SECTION V—REACTIVITY DATA

STABILITY:	Stable under ordinary conditions of use and storage. Unstable at elevated temperatures.
INCOMPATIBILITY (MATERIALS TO AVOID):	Reacts vigorously with acids (especially phosphoric), urea, most organic materials, amines, ammonium salts, reducing agents, and methanol.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	Decomposes under various mechanisms. May generate chlorine or oxygen which may be toxic and explosive, respectively.
CONDITIONS TO AVOID:	Freezing and extremes of heat
HAZARDOUS POLYMERIZATION:	Will not occur

SECTION VI—HEALTH HAZARD DATA/FIRST AID PROCEDURES

HEALTH HAZARDS (ACUTE AND CHRONIC): **Ingestion:** Ingestion of a few ounces can cause corrosion of mucous membranes, swelling of the throat, perforation of the esophagus and stomach, vomiting, colitis, hypotension, and circulatory collapse. May lead to convulsions, coma, or death. At 20% (by volume) concentrations, as little as 1 ounce may be lethal. **Eye/Skin:** Liquid contact can produce irritations of the skin with blistering. Direct contact with eyes may cause redness, pain, and in the case of concentrated hypochlorite (20% by volume) permanent damage. **Inhalation:** Inhalation of mist or fumes can cause bronchial irritation, cough, difficult breathing, inflammation of the mouth, nausea, and in severe exposures, pulmonary edema. Material has odor of chlorine.

CARCINOGENICITY: NTP: No
IARC Monographs: No
OSHA Regulated: No

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation of exposed tissues, especially eyes, skin, throat, nasal cavities, and other mucous membranes. Ingestion may cause dizziness, drowsiness, nausea and vomiting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: If contact with eyes occurs, flush with plenty of cool water for 15 minutes. Consult a physician.
Skin: May be irritating to skin. If contact occurs, flush with water and wear gloves and impervious protective rubber clothing in the future to minimize exposure. Wash hands thoroughly after handling. Remove contaminated clothing. Discontinue use if irritation persists and consult a physician.
Inhalation: Remove from exposure. Obtain medical attention immediately.
Ingestion: May be harmful if swallowed. If ingested, drink large amounts of water. **DO NOT** induce vomiting. Get medical attention immediately. Avoid contamination of foods.
Note to Physician: Do not administer acidic antidotes or sodium bicarbonate following sodium hypochlorite overexposure. An ounce of 1% sodium thiosulfate or milk of magnesia is helpful. Use supportive care. Treatment should be based on judgment of the physician in response to the reactions of the patient.

SECTION VII—PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: May be flushed with water. Material is biodegradable and may be disposed of in a sanitary sewer. Wear respirators if there is a possibility of the evolution of chlorine gas.

WASTE DISPOSAL METHOD: Waste disposal must be done in accordance with all local, city or municipality, county, state, and federal regulations. Consult your state department of natural resources or the EPA for specific questions not answerable through other sources. Wastewater should never enter a fresh water body without treatment.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry ventilated area. Protect against physical damage. . Keep container closed when not in use. Do not mix with other chemicals or cleaning agents. Store in clean tanks and drums.

OTHER PRECAUTIONS: Always keep product out of the reach of children. For industrial use only. Not to be taken internally.

SECTION VIII—OTHER REGULATORY INFORMATION

SARA Title III: Sara 311/312 – Hazard Class – Acute Health Hazard, Reactive Hazard TSCA: All ingredients are listed on the TSCA inventory.
Sara 302/313: Not listed.

SECTION IX—CONTROL MEASURES

RESPIRATORY PROTECTION: In general, respirators are recommended for all personnel working in or about an area of potential mist exposure.
VENTILATION: Local Exhaust: Recommended to control chlorine gas below TLV.
Mechanical (General): Recommended to control chlorine gas below TLV.
SKIN PROTECTION: Neoprene, nitrile, PVC, rubber, or other chemical resistant gloves. Wear impervious protective clothing to prevent repeated or prolonged contact.
EYE PROTECTION: Use chemical safety goggles impervious to product. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in immediate work area.
WORK/HYGIENIC PRACTICES: As good hygiene dictates.

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