

# MATERIAL SAFETY DATA SHEET from STEARNS PACKAGING CORPORATION

## SECTION I—PRODUCT/MANUFACTURER'S IDENTITY

### IDENTITY (As Used On Label and List):

**Bowl Cleaner**

**SYNONYMS:** ST-25  
Stearns Bowl Cleaner; Acid Bowl Cleaner

**FORMULA ID NUMBER:** AM70

**EPA REG #:** None

**NSF CERTIFIED:** None

**COMPANY:** STEARNS PACKAGING CORPORATION  
**ADDRESS:** 4200 Sycamore Ave. (53714), P.O. Box 3216  
Madison, Wisconsin (WI) 53704-0216

**PHONE:** 1 (608) 246-5150  
**FAX:** 1 (608) 246-5149  
**INTERNET:** www.stearnspkg.com  
**EMAIL:** stearns@stearnspkg.com

HAZARD RATING		
0	Flammability	4 = Extreme
3	Health	3 = High
0	Reactivity	2 = Moderate
None	Special Hazard	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  
**DOT SHIPPING NUMBER:** None  
**HAZARD LABEL:** ORM-D  
**HAZARD CLASS:** ORM-D

## SECTION II—HAZARDOUS INGREDIENTS OR IDENTITY INFORMATION

<u>HAZARDOUS CHEMICAL IDENTITY &amp; CAS#</u>	<u>HAZARD</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER LIMITS</u>	<u>% (OPTIONAL)</u>
▶ Hydrochloric acid 7647-01-0	Corrosive/Toxic	5	5		

SARA SECTION 313 TITLE III NOTIFICATION REQUIRED: Yes; CHEMICAL IN PRODUCT: Hydrochloric acid; CAS#: 7647-01-0; WEIGHT % OF CHEM: 12.22

## SECTION III—PHYSICAL/CHEMICAL CHARACTERISTICS

<b>BOILING POINT:</b>	Not Determined	<b>VAPOR PRESSURE (mm Hg):</b>	Not Determined
<b>SPECIFIC GRAVITY (WATER=1):</b>	1.063	<b>VAPOR DENSITY (AIR=1):</b>	Not Determined
<b>MELTING POINT:</b>	Not Determined	<b>EVAPORATION RATE:</b>	>1 (Butyl acetate = 1)
<b>SOLUBILITY IN WATER:</b>	Complete	<b>pH (CONCENTRATE):</b>	0.09
<b>APPEARANCE AND ODOR:</b>	Clear, light blue liquid pungent, acrid odor	<b>pH (1% SOLUTION):</b>	Not Determined

## SECTION IV—FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT (METHOD USED):</b>	Non-combustible, >200°F
<b>EXTINGUISHING MEDIA:</b>	CO <sub>2</sub> , water, dry chemical
<b>FLAMMABLE LIMITS:</b>	LEL: Not Applicable UEL: Not Applicable
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Neutralize with chemically alkaline substances, such as soda ash or lime to avoid formation of potentially explosive hydrogen gas. Cool tanks with water if exposed to fire.
<b>FIRE &amp; EXPLOSION HAZARDS:</b>	May generate flammable and potentially explosive hydrogen gas upon contact with metals. Explosive concentrations of hydrogen gas may accumulate inside metal equipment.

## SECTION V—REACTIVITY DATA

<b>STABILITY:</b>	Stable
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	In addition to above, avoid contact with alkalis, metallic oxides, strong oxidants, including fluorine, vinyl acetate, propiolactone (beta), propylene oxide. Also water-reactive materials such as concentrated sulfuric acid, oleum and acetic anhydride.
<b>HAZARDOUS DECOMPOSITION OR BYPRODUCTS:</b>	HCl evolution accelerated by heating or contact with water-reactive materials such as concentrated sulfuric acid.
<b>CONDITIONS TO AVOID:</b>	Avoid contact with metals (evolution of hydrogen gas), oxidizing agents, cyanides, sulfides, formaldehyde (may release toxic HCN, H <sub>2</sub> SN or OSHA regulated carcinogen: bischloromethyl ether).
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur

## SECTION VI—HEALTH HAZARD DATA/FIRST AID PROCEDURES

**HEALTH HAZARDS (ACUTE AND CHRONIC):** Irritation or corrosion may occur to exposed tissues, especially eyes, skin, throat, nasal cavities and other mucous membranes from contact with the product, its use solutions, or mists and vapors generated by the product. Eye contact may cause blindness. Ingestion may be harmful or fatal. Inhalation of concentrations of 1500 ppm in air are fatal in a few minutes.

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

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Irritation and burning of mucous membranes, air passageways, or exposed skin surfaces. Corrosion of exposed tissues. May cause pulmonary edema, asphyxia, dermatitis, photosensitization, conjunctival edema, corneal destruction that may lead to blindness. Also, pain, tearing and photophobia.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Dermatitis, breathing disorders.

### 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 in the future to minimize exposure. Wash hands thoroughly after handling. 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 or milk. **DO NOT** induce vomiting. Get medical attention immediately. Avoid contamination of foods.

**Note to Physician:** Extremely corrosive agent which will burn any exposed tissues upon other than very brief contact. Eyes, skin, and mucous membranes should be flushed thoroughly with water, and ophthalmologic consultation should be obtained for any corneal burns. In case of ingestion, immediate dilution with water, milk or demulcent liquids is worthwhile, but attempts to neutralize with a base should be avoided because of excessive base and heat formation, which may increase the threat of esophagogastic perforation. Vomiting and diarrhea (laxative effect of phosphates) are to be expected with large doses. Parenteral fluid administration may be needed if losses therefrom are severe, or if shock ensues. Supportive care may be needed for such other complications as glottal edema, hematemesis and perforation (unlikely). Induced vomiting should be avoided because local tissue injury may be aggravated, but the patient should be watched for hyperphosphatemia and hypocalcemia. Milk or other demulcent liquids may be worthwhile for gastric irritation.

## SECTION VII—PRECAUTIONS FOR SAFE HANDLING AND USE

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear acid-resistant suit and complete protective equipment including rubber gloves, boots, chemical goggles and faceshield. Small spills: mop up and dispose of in DOT-approved waste containers. Large spills: Contain by diking with soil or other absorbent material and carefully neutralize with soda ash or lime. If soda ash is used, provide adequate ventilation to dissipate carbon dioxide gas. Keep unneutralized material out of sewers, storm drains, surface waters, and soil.

**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. If material cannot be salvaged, an acceptable method of disposal is neutralization followed by discharge into treatment system with large amounts of water.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Store away from all other chemicals and potential sources of contamination. Do not use pressure to empty container. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

**OTHER PRECAUTIONS:** Always keep product out of the reach of children.

## SECTION VIII—OTHER REGULATORY INFORMATION

**SARA SECTION 313 TITLE III REPORTABLE CHEMICALS:** Hydrochloric acid 7647-01-0

**California Safe Drinking Water and Toxic Enforcement Act of 1986:** Ethylene oxide 75-21-8

## SECTION IX—CONTROL MEASURES

**RESPIRATORY PROTECTION:** In general, respirators are not needed if the product is used in a well-ventilated area. However, use of a NIOSH/MSHA respirator may be a good common sense approach to working with products where dusts and mists are known to cause irritation of the eyes and/or mucous membranes.

**VENTILATION:** Local Exhaust: Recommended to control below TLV of 5 ppm for hydrochloric acid.  
Mechanical (General): Recommended to control below TLV of 5 ppm for hydrochloric acid.

**SKIN PROTECTION:** Neoprene, rubber, or other chemical resistant gloves. Wear protective clothing to prevent repeated or prolonged contact. Chemical resistant safety suit if desired.

**EYE PROTECTION:** Splash goggles, or safety glasses if splashing is not a concern.

**WORK/HYGIENIC PRACTICES:** As good hygiene dictates.

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