

MATERIAL SAFETY DATA SHEET from STEARNS PACKAGING CORPORATION

SECTION I—PRODUCT/MANUFACTURER'S IDENTITY

IDENTITY (As Used On Label and List):

Acid Rinse

SYNONYMS: ST-70, ST-270, ST-271, ST-272

FORMULA ID NUMBER: AM20

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
2	Health	3 = High
1	Reactivity	2 = Moderate
Acid	Special Hazard	1 = Slight
		0 = Insignificant

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

Shipping Information:

DOT SHIPPING NAME: Compounds, cleaning, liquid, 8, NA 1760, PG III, (containing phosphoric acid), Item 48580, Sub 3, Class 55

DOT SHIPPING NAME: Compounds, cleaning, liquid, 8, NA 1760, PG III, Ltd Qty (containing phosphoric acid), Item 48580, Sub 3, Class 55

DOT SHIPPING NUMBER: NA 1760

HAZARD LABEL: Corrosive; None for Ltd Qty

HAZARD CLASS: 8, Corrosive

SECTION II—HAZARDOUS INGREDIENTS OR IDENTITY INFORMATION

HAZARDOUS CHEMICAL IDENTITY &

CAS#	HAZARD	OSHA PEL	ACGIH TLV	OTHER LIMITS	% (OPTIONAL)
▶ Phosphoric acid 7664-38-2	Corrosive	1 mg/cu m	1 mg/cu m	3 mg/cu m (STEL)	36.12

SARA SECTION 313 TITLE III NOTIFICATION REQUIRED: Yes; CHEMICAL IN PRODUCT: Phosphoric acid; CAS#: 7664-38-2; WEIGHT % OF CHEM: 15-20; RQ = 5,000#

SECTION III—PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	111°C	VAPOR PRESSURE (mm Hg):	Not Determined
SPECIFIC GRAVITY (WATER=1):	1.230	VAPOR DENSITY (AIR=1):	>1
FREEZING POINT:	Not Applicable	EVAPORATION RATE:	Not Determined
SOLUBILITY IN WATER:	Complete	pH (CONCENTRATE):	0.24
APPEARANCE AND ODOR:	Light orange, clear liquid; Slight acid odor	pH (1% SOLUTION):	Not Determined

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED):	Non-combustible, >200°F
EXTINGUISHING MEDIA:	CO ₂ , water, dry chemical
FLAMMABLE LIMITS:	LEL: Not Applicable UEL: Not Applicable
SPECIAL FIRE FIGHTING PROCEDURES:	Use full protective clothing and self-contained breathing apparatus. Thermal decomposition emits toxic fumes of oxides of phosphorous and sulfur.
FIRE & EXPLOSION HAZARDS:	Phosphoric acid can react with metals in a fire to produce flammable hydrogen gas. Otherwise not considered fire or explosion hazard.

SECTION V—REACTIVITY DATA

STABILITY:	Stable
INCOMPATIBILITY (MATERIALS TO AVOID):	Phosphoric acid reacts with sodium tetrahydroborate. Exothermic reactions with aldehydes, amines, amides, alcohols, and glycols, azo-compounds, carbamates, esters, caustics, phenols, cresols, ketones, organophosphates, epoxides, explosives, combustible materials, unsaturated halides, and organic peroxides. Phosphoric acid forms flammable gases with cyanides, sulfides, fluorides, organic peroxides, and halogenated organics. Mixtures with nitromethane are explosive.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	At flame temperatures, it may emit toxic phosphorous oxide fumes and flammable hydrogen gas.
CONDITIONS TO AVOID:	Heat; possibility of decomposition and release of gases. Any incompatible materials above.
HAZARDOUS POLYMERIZATION:	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.

CARCINOGENICITY: NTP: No
IARC Monographs: No
ACGIH Regulated: No

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation of exposed tissues. Chronic exposure causes burns. Eyes, skin and mucous membranes may be simultaneously irritated or burned if exposed to mists of product or solutions.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to effects of the substance.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: If contact with eyes occurs, flush with plenty of cool water for 15 minutes. Remove contact lenses. 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. Wash contaminated clothing.
Inhalation: Remove from exposure. Obtain medical attention immediately if difficulty breathing.
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 esophagogastric 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 hyperphosphatemia and hypocalcemia. Milk or other demulcent liquids may be worthwhile for gastric irritation.

WARNING STATEMENTS: **DANGER! CORROSIVE.** Causes severe irritation and burns to every area of contact. Harmful if swallowed or inhaled. Keep out of reach of children.

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 dry, well-ventilated place above 50°F. Do not mix with other chemicals or cleaning agents. Do not mix with bleach; toxic fumes will be emitted.

OTHER PRECAUTIONS: Empty containers may have residues, gases, and mists, and are subject to proper waste disposal, as above. Always obey hazard warnings and handle empty containers as if they were full. Always keep product out of the reach of children.

SECTION VIII—OTHER REGULATORY INFORMATION

Acidic run-off water may be harmful to flora, fauna, and aquatic life.

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 1 mg/cu m for phosphoric acid.
Mechanical (General): Recommended to control below TLV of 1 mg/cu m for phosphoric acid.

SKIN PROTECTION: Neoprene, rubber, or other chemical resistant gloves. Wear protective clothing to prevent repeated or prolonged contact.

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

WORK/HYGIENIC PRACTICES: As good hygiene dictates.

Stearns Packaging Corporation makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Stearns Packaging Corporation as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Stearns Packaging Corporation assume any liability arising out of the use by others of this product referred to herein. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Stearns Packaging Corporation does not recommend blending this product with any other chemicals. All information, recommendations and data contained herein concerning this product are based upon information available at the time of writing from recognized technical sources.