MATERIAL SAFETY DATA SHEET FROM STEARNS PACKAGING CORPORATION

SECTION I—PRODUCT/MANUFACTURER’S IDENTIFY

IDENTITY (As Used On Label and List):

Hytron Free

SYNONYMS: ST-360, ST-365

FORMULA ID NUMBER: DP16

EPA REG #: None

NSF CERTIFIED: None

COMPANY: STEARNS PACKAGING CORPORATION

ADDRESS: 4200 Sycamore Ave. (53714), PO Box 3216 Madison, Wisconsin (WI) 53704-0216

PHONE: 1 (608) 246–5150

FAX: 1 (608) 246–5149

INTERNET: www.stearnspkg.com

EMAIL: steans@stearnspkg.com

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

Shipping Information:

DOT SHIPPING NAME: Compound, cleaning, NOI, powder. Item 48581, Class 55

DOT SHIPPING NUMBER: None

HAZARD LABEL: None

HAZARD CLASS: None

SECTION II—HAZARDOUS INGREDIENTS OR IDENTIFY INFORMATION

HAZARDOUS CHEMICAL IDENTITY & CAS#  HAZARD  OSHA PEL  ACGIH TLV  OTHER LIMITS  % (OPTIONAL)

▶ Sodium carbonate  497-19-8  Irritant  20 - 35
▶ Sodium citrate  68-04-2  Irritant  9 - 15
▶ Sodium metasilicate  6834-92-0  Corrosive  5 - 10
▶ Silicic acid, sodium salt  1344-09-8  Irritant  3 - 8

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: Not Determined

SPECIFIC GRAVITY (WATER=1): Not Applicable

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: White crystals and granules, No fragrance

VAPOR PRESSURE (mm Hg): Not Determined

VAPOR DENSITY (AIR=1): Not Determined

EVAPORATION RATE: Not Determined

pH (CONCENTRATE): Not Determined

pH (1% SOLUTION): 10.0

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Non-combustible, >200°F

EXTINGUISHING MEDIA: Not Applicable

FLAMMABLE LIMITS: LEL: Not Applicable  UEL: Not Applicable

SPECIAL FIRE FIGHTING PROCEDURES: Use full protective clothing and self-contained breathing apparatus.

FIRE & EXPLOSION HAZARDS: None
Stability: Stable

Conditions to avoid: Freezing and extremes of heat.

Incompatibility (Materials to avoid): Avoid contact with strong oxidizers. May react with ammonia, urea, or similar nitrogen-containing compounds, resulting in evolution of ammonia gas.

Hazardous Polymerization: Will not occur

Hazardous Decomposition or Byproducts: Carbon dioxide and carbon monoxide, and hydrogen may form when heated to decomposition.

Conditions to avoid: Heat, flame, ignition sources, dusting, and incompatible materials.

Health Hazard Data/First Aid Procedures

Health Hazards (Acute and Chronic): Strongly alkaline, may cause burning to eyes and respiratory passages. Possible irritant to skin over prolonged periods of exposure.

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.

Medical Conditions Aggravated by Exposure: No data available.

Emergency and First Aid Procedures:

Eyes: If contact with eyes occurs, flush with plenty of cool water for 15 minutes. If irritation persists, 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. Large oral dosages may produce gastrointestinal disturbances. If ingested, drink large amounts of water or milk. DO NOT induce vomiting. Get medical attention immediately. Avoid contamination of foods.

Note to Physician: Strongly alkaline, may remove sebaceous oils leaving skin unprotected and may cause chemical burns. Accessible exposed tissue should be flushed thoroughly with water, and any cameal burns warrant consultation of an ophthalmologist. Ingestion may result in nausea, vomiting and burns, especially of the esophagus. Attempts to neutralize ingested material with acids may cause further heat and gas production, which can increase the risk of perforation. Dilution may so likewise, but when the dry material is ingested, adherence of the particles to the esophageal mucosa may assure perforation and/or stricture formation may occur without oropharyngeal burns. Accordingly, most authorities recommend limited esophageal stenosis. Prevention of the latter is controversial, though most authorities favor early corticosteroid and/or prophylactic dilation therapy.

Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Sweep up for salvage or disposal. Wash down residue with water. Take care to avoid contact with large amounts of dust.

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 freshwater body without treatment.

Precautions to be taken in handling and storage: Wear all recommended safety gear. Do not mix with other chemicals or cleaning agents. Avoid contact with dust.

Other Precautions: Always keep product out of the reach of children.

Other Regulatory Information

California Safe Drinking Water and Toxic Enforcement Act of 1986 – No chemicals listed by California are present at a level that poses a significant risk of causing cancer or reproductive toxicity.

Control Measures

Respiratory Protection: In general, respirators are not needed if the product is used in a well-ventilated area. However, a respirator is recommended when working with products where dusts and mists cause irritation of the eyes and/or mucous membranes.

Ventilation: Local Exhaust: Recommended for control of dusts.
Mechanical (General): Recommended for control of dusts.

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.

Hygienic Practices: As good hygiene dictates.