Material Safety Data Sheet
(in compliance with 29 CFR 1910.1200)

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: HARWICK BENZOIC ACID

Manufactured for and supplied by:

Harwick Standard Distribution Corporation
60 South Seiberling Street
P.O. Box 9360
Akron, OH 44305-0360

Telephone No: (330) 798-9300
Date prepared: December 7, 2011
Preparer: Health, Safety & Environment

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	CAS Number
Benzoic Acid	65-85-0

SECTION 3 - HAZARD(S) IDENTIFICATION

Primary routes of exposure:

Inhalation ☑ **Skin contact** ☑ **Eye contact** ☑ **Skin absorption** ☐ **Ingestion** ☑

Emergency Overview: WARNING! Causes eye, skin and respiratory tract irritation. Harmful if swallowed. Inhalation and skin contact may cause sensitization.

Potential Health Effects: Eye contact causes severe eye irritation, redness and pain. Skin contact causes skin irritation. May be harmful if absorbed through the skin. Skin contact may cause sensitization. May be absorbed through the skin in harmful amounts. Absorption through the skin has produced labored breathing in humans. Can cause redness and swelling with itching (non-immunological contact urticaria or hives) at site of application. Prolonged or repeated skin contact may cause dermatitis. Harmful if swallowed. Ingestion may cause irritation of the digestive tract. May be harmful if inhaled. Inhalation causes respiratory tract irritation. May cause respiratory sensitization.

SECTION 4 – FIRST AID MEASURES

Inhalation: Move person to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention immediately.

Ingestion: Seek medical attention immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2 to 4 cupfuls of milk or water. Do not give anything by mouth to an unconscious or convulsing person.

Skin contact: Seek medical attention immediately. Immediately wash affected skin areas with soap and water while removing contaminated clothing and shoes.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Seek medical attention immediately.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

Flash point: 250°F (121°C)

Extinguishing media: In case of fire use water spray, dry chemical, carbon dioxide (CO2) or chemical foam.

Special fire fighting procedures: Full face self-contained breathing apparatus (SCBA) used in positive pressure mode, MSHA/NIOSH approved or equivalent, should be worn to prevent inhalation of airborne contaminants. Wear full protective gear to prevent contact with skin and eyes. Prevent fire-fighting water from entering surface water or groundwater.

Unusual Fire and Explosion Hazards: Dusts at sufficient concentrations can form explosive mixtures with air. Development of hazardous combustion gases or vapors may be possible in the event of a fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak & Spill Procedure: Use appropriate personal protective equipment. Provide ventilation. Avoid the generation of dust. Do not inhale dust. Vacuum or sweep up material and place into a suitable container for disposal. Do not allow product to enter into environment.

SECTION 7 - HANDLING AND STORAGE

Handling: Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation of dust. Use only in a chemical fume hood.

Storage: Keep tightly closed containers stored in a cool, dry, well-ventilated area away from incompatible materials. Keep away from sources of ignition.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: A NIOSH/MSHA approved respirator above PEL or TLV, and/or an organic vapor respirator for vapors or mists if engineering controls do not maintain airborne concentrations below recommended exposure limits or to an acceptable level.

Ventilation:

Local exhaust: Recommended to minimize exposure.
Mechanical (general): Recommended to minimize exposure.

Protective gloves: Protective gloves to prevent skin exposure

Eye protection: Chemical safety goggles

Other protective clothing or equipment: Wear appropriate protective clothing to prevent skin exposure. Eye wash station. Safety shower.

Work/hygienic practices: Wash thoroughly after handling.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Boiling point:	249.2◦C @ 760 mmHg	Specific gravity:	Not available
Freezing/Melting point:	122.4◦C	pH:	2.8 (satd soln)
Vapor pressure (mm Hg):	0.0012 @ 25°C	Odor threshold (ppm):	Not determined
Vapor density (AIR=1):	4.21	Coefficient of water/oil distribution:	Not determined
Solubility in water:	3.4 g/l @ 25	Evaporation rate:	Negligible
Appearance (physical state):	White crystalline powder	Odor:	Pleasant

SECTION 10 - STABILITY & REACTIVITY

Stability **Stable:** ☑
Unstable: ☐

Conditions to Avoid (Conditions of Reactivity): Incompatible materials. Dust generation. Excessive heat.

Incompatibility (Materials to Avoid): Strong oxidizing agents. Strong bases. Strong reducing agents.

Hazardous Polymerization **May occur:** ☐
Will not occur: ☑

Hazardous Decomposition or Byproducts: Carbon dioxide (CO2), carbon monoxide (CO)

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:

Draize test, rabbit, eye: 100 mg Severe
Draize test, rabbit, skin: 500 mg/24H Mild
Inhalation, rat: LC50: >26 mg/m3/1H
Oral: LD50 (Mouse): 1,940 mg/kg
Oral: LD50 (Rat): 1,700 mg/kg
Skin: LD50 (Rabbit): >10 mg/kg
Human TDLo skin of 6 mg/kg produced dyspnea (difficult or labored breathing) and allergic dermatitis

Epidemiology: No information available
Teratogenicity: No information available
Reproductive Effects: No information available
Neurotoxicity: No information available
Mutagenicity: Benzoic acid and sodium benzoate have been tested for mutagenicity or genotoxicity in prokaryotes, eukaryotes, and several mammalian test systems. No positive results have been reported.
RTECS data for benzoic acid:
Mutations in microorganisms: Escherichia coli = 10 mmol/L
DNA inhibition: Human lymphocyte = 5 mmol/L
EPA Genetox Program 1988, Negative
Histidine reversion-Ames test; S Cerevisiae-homozygosis

Acute: Eye contact causes severe eye irritation, redness and pain. Skin contact causes skin irritation. May be harmful if absorbed through the skin. Skin contact may cause sensitization. May be absorbed through the skin in harmful amounts. Absorption through the skin has produced labored breathing in humans. Can cause redness and swelling with itching (non-immunological contact urticaria or hives) at site of application. Harmful if swallowed. Ingestion may cause irritation of the digestive tract. May be harmful if inhaled. Inhalation causes respiratory tract irritation. May cause respiratory sensitization.

Chronic: Prolonged or repeated skin contact may cause dermatitis.

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: Mosquito Fish: LC 50 = 180 mg/L; 96 Hr
Unspecified Bacteria: Phytobacterium phosphoreum: EC50 = 16.9 mg/L; 96 Hr

If released on land, benzoic acid should leach into the ground due to its low soil absorption and biodegrade (half life <2 wk). If released in water, benzoic acid should also readily biodegrade (half-life 0.2 –3.6 days). Absorption to sediment and volatilization should not be significant.

Environmental: No information available
Other: Do not empty into drains.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal method: In accordance with federal, state, and local regulations. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Special shipping information: US DOT

Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Benzoic acid) Reportable Quantity (RQ) 5000 lbs
Hazard Class: 9
UN Number: 3077
Packing Group: III

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory Status: CAS# 65-85-0 is listed on the TSCA Inventory

TSCA Section 12b: None of the chemicals are listed under TSCA Section 12b

SARA Hazard Categories: CAS# 65-85-0 Immediate

SARA 313:
This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372: None known

HMIS Classification: HEALTH 2 FLAMMABILITY 1 REACTIVITY 0

SECTION 16 - OTHER INFORMATION