

Safety Data Sheet (SDS)

North American

Revision date: 2015-11-18

SECTION 1: Identification

Product identifiers:

Product trade name: Purox* B Food/Pharma, ultra pure grade benzoic acid

Company product number: BZOHPURBFP

Other means of identification: Benzenecarboxylic acid; Benzeneformic acid; Phenylcarboxylic acid;

Phenylformic acid; Benzenemethanoic acid; Carboxybenzene

Recommended use of the chemical and restrictions on use:

Uses: Industrial use. Professional use. Additive.

Restrictions on use: None identified

Details of the supplier:

Manufacturer/Supplier: EMERALD KALAMA CHEMICAL B.V.

Havennr. 4322 - Montrealweg 15

3197 KH Rotterdam-Botlek - THE NETHERLANDS Telephone: +31 88 888 0500 - FAX: +31 88 888 0520

purox.info@emeraldmaterials.com

For further information about this SDS: Email: product.compliance@emeraldmaterials.com

Emergency telephone number:

ChemTel (24 hours): 1-800-255-3924 (USA); +001-813-248-0585 (outside USA).

SECTION 2: Hazard(s) identification

Information in accordance with U.S. 29 CFR 1910.1200 (Hazcom 2012) and Canada Hazardous Products Regulations (WHMIS 2015):

Classification of the product:

Skin Irritation, category 2 Serious Eye Damage, category 1 STOT, repeated exposure, category 1 Combustible Dust

Label elements:

Hazard pictogram(s):





Signal word:

Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H372 Causes damage to organs (lungs) through prolonged or repeated exposure by inhalation.

USH001 May form combustible dust concentrations in air.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local, regional and international regulations.

Supplemental information: No Additional Information

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III.

Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

Hazards not otherwise classified:

Physical hazards not otherwise classified: No Additional Information Health hazards not otherwise classified: No Additional Information

See Section 11 for toxicological information.

SECTION 3: Composition/information on ingredients

Substance:

 CAS-No.
 Chemical Name
 Weight%

 000065-85-0
 Benzoic Acid
 95-100

Notes: Benzoic acid: >99%.

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Description of first aid measures:

General: If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact: Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Get medical attention immediately.

Skin contact: Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Most important symptoms and effects, both acute and delayed: Eye redness and pain, Irritation. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information.

Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5: Fire-fighting measures

NFPA flammability class: N/A (Combustible solid)

Extinguishing media:

Suitable: Use water spray, dry chemical, or foam. Carbon dioxide may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition.

Unsuitable: Avoid hose streams or any method which will create dust clouds.

Special hazards arising From the chemical:

Unusual fire/explosion hazards: Concentrated dust/air combinations may produce explosive conditions. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders. See Section 7 for suggested measures.

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.

Special protective equipment and precautions for fire-fighters: Water spray (fog) can be used to absorb heat and to cool and protect surrounding exposed material. Avoid hose streams or any method which will create dust clouds. Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Avoid raising powdered material due to explosion hazard. Use spark-proof and explosion-proof equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator. Personal Protective Equipment must be worn.

Environmental precautions: Do not flush product into public sewer, water systems or surface waters.

Methods and materials for containment and cleaning up: Contain spill. Wear proper personal protective clothing and equipment. Using care to avoid dust generation, vacuum or sweep into a closed container for reuse or disposal. Use approved industrial vacuum cleaner for removal. Avoid causing dust. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

SECTION 7: Handling and storage

Precautions for safe handling: As with any chemical product, use good laboratory/workplace procedures. Do not get in eyes. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under wellventilated conditions. Avoid skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Avoid routine inhalation of dust of any kind. Exercise care when emptying containers, sweeping, mixing or doing other tasks which can create dust. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area. As a precaution to control dust explosion potential, implement the following safety measures: Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). In general, dust of organic materials is a static charge generator which may be ignited by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. Use spark-proof tools and equipment. Bond, ground and properly vent conveyors, dust control devices and other transfer equipment. Prohibit flow of polymer, powder or dust through non-conductive ducts, vacuum hoses or pipes, etc.; only use grounded, electrically conductive transfer lines when pneumatically conveying product. Good housekeeping and controlling of dusts are necessary for safe handling of product. Prevent accumulation of dust (e.g., wellventilated conditions, promptly vacuuming spills, cleaning overhead horizontal surfaces, etc.). A properly engineered explosion suppression system must be considered. See standards such as the National Fire Protection Association NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids"; NFPA 69, "Standard on Explosion Prevention Systems"; NFPA 68, "Standard on Explosion Protection by Deflagration Venting"; NFPA 77, "Recommended Practice on Static Electricity" and other standards as the need exists.

Conditions for safe storage, including any incompatibilities: Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

SECTION 8: Exposure controls / personal protection

Control parameters:

Occupational exposure limits (OEL):

 Chemical Name
 ACGIH - TWA
 ACGIH - STEL

 Benzoic Acid
 N/E
 N/E

 Chemical Name
 OSHA - PEL
 OSHA - STEL
 OSHA - Ceiling
 Mexico

 Benzoic Acid
 N/E
 N/E
 N/E
 N/E

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

PNOS: ACGIH has recommended the following exposure limits for Particulates (insoluble or poorly soluble) not otherwise specified (PNOS): 10 mg/m3 TWA (inhalable particles), 3 mg/m3 TWA (respirable particles). OSHA exposure limits for Particulates not otherwise regulated are 15 mg/m3 TWA (total dust) and 5 mg/m3 TWA (respirable fraction).

Exposure controls:

Appropriate engineering controls: Always provide effective general and, when necessary, local exhaust ventilation to draw dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). Prohibit flow of powder or dust through non-conductive ducts, vacuum hoses, or pipes, etc. Bond, ground, and properly vent conveyors, dust control devices and other transfer equipment. (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240-1634, USA.) (http://www.acgih.org/home.htm).

Individual protection measures, such as personal protective equipment (PPE):

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection: Wear chemical resistant (impervious) gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator. Dust production: dust mask with filter type P2. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

Further information: Eyewash fountains and safety showers are recommended in the work area.

SECTION 9: Physical and chemical properties

Form: Solid pH: 2.8 @ 25°C (saturated solution)

Appearance: White Relative density: 1.32 @ 20°C

Odor: Characteristic Partition coefficient (n- 1.88

octopol/water):

octanol/water):

Odor threshold:Not Available% Volatile by weight:Not AvailableSolubility in water:3.5 g/L @ 25°CVOC:Not Available

Evaporation rate:Not AvailableBoiling point °C:249 °C @ 760 mm HgVapor pressure:0.0011 hPa @ 20°CBoiling point °F:480 °F @ 760 mm Hg

Vapor density:Not AvailableFlash point:Not ApplicableViscosity:Not AvailableAuto-ignition temperature:Not Applicable

Melting point/Freezing point: 122 °C (252 °F) Flammability (solid, gas): Not flammable (may form

combustible dust-air mixtures)

Oxidizing properties: Not oxidizing Flammability or explosive LFL/LEL Not Available

limits:

Explosive properties: Not explosive UFL/UEL Not Available

Decomposition temperature: Not Available **Surface tension:** 67.5 mN/m @ 20°C (1 g/L)

Other information: Amounts specified are typical and do not represent a specification.

Dust combustibility data: Particle size variation is considered a critical factor in regards to dust explosion hazard information. The Minimum Ignition Energy (MIE) of a dust/air mix depends on the particle size the water content and the temperature of the dust. The finer and the dryer the dust the lower the MIE.

Product sample: median value of the tested sample > 0.5 mm does not ignite.

Results applicable as follows. Sample tested is not typical of product.

- Minimum ignition energy: 3 10 mJ (test performed using a similar product, milled sample, median value of the tested sample
- > 0.063 mm, EN13821)
- Minimum ignition energy (dust cloud): 5-10 mJ (particle size <75 um, 0.2% moisture content)
- Minimum explosive concentration: 20-30 g/m3 (crystalline granules, unknown particle size)
- Autoignition temperature: 617-620°C (crystalline granules, unknown particle size)
- Volume resistivity (ambient relative humidity): 7.4 x 10(9) ohm-m (flakes, unknown particle size)
- Volume resistivity (low relative humidity): 1.2 x 10(12) ohm-m (flakes, unknown particle size)
- Charge decay (ambient relative humidity): 37 seconds (flakes, unknown particle size)
- Charge decay (low relative humidity): 43 seconds (flakes, unknown particle size)

SECTION 10: Stability and reactivity

Reactivity: None known.

Chemical stability: This product is stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur. Water solutions of product may produce hydrogen gas in contact with aluminum or some other metals.

Conditions to avoid: Excessive heat and ignition sources. Avoid static discharge. Avoid dust formation.

Incompatible materials: Avoid strong acids, bases, and oxidizing agents. Avoid contact with reducing agents. Avoid contact with metals.

Hazardous decomposition products: Carbon dioxide and carbon monoxide, benzene, phenol.

SECTION 11: Toxicological information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Eyes: Causes serious eye damage.

Skin: Causes skin irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Inhalation: Dust inhalation may cause respiratory irritation.

Ingestion: May be harmful if swallowed. Ingestion may cause irritation.

Symptoms/effects, acute and delayed: Eye redness and pain, Irritation

Acute toxicity information: Not classified (based on available data, the classification criteria are not met).

Chemical Name	Inhalation LC50	Species .	Oral LD50	Species	Dermal LD50	Species .
Benzoic Acid	>12.2 mg/L (4 hours,	, Rat/ adult	2250 mg/kg	Mouse	>2000 mg/kg	Rabbit/ adult
	no mortalities)					

Skin corrosion/irritation: Causes skin irritation (Category 2). BENZOIC ACID: Benzoic acid and its salts are capable of causing non-immune immediate contact reactions (NIICR) and non immunogenic contact urticaria (NICU), also known as pseudoallergy. Per definition, non-immunologic immediate contact reactions are considered irritant reactions.

Chemical NameSkin irritationSpeciesBenzoic AcidIrritantGuinea pig/Human

Serious eye damage/irritation: Causes serious eye damage (Category 1).

 Chemical Name
 Eye irritation
 Species

 Benzoic Acid
 Severe irritant
 Rabbit/ adult

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met). BENZOIC ACID: Not a skin sensitizer in the mouse local lymph node assay or Buehler guinea pig test.

<u>Chemical Name</u> <u>Skin sensitisation</u> <u>Species</u>

Chemical Name Skin sensitisation Species

Benzoic Acid Non-sensitizer Guinea pig and Mouse local lymph node assay

Carcinogenicity: Not classified (based on available data, the classification criteria are not met). READ-ACROSS (SODIUM BENZOATE): In a 2-year animal feeding study (2% in food), sodium benzoate was not carcinogenic.

Carcinogenic status: Not listed or regulated by IARC, NTP, OSHA, or ACGIH.

Germ cell mutagenicity: Not classified (based on available data, the classification criteria are not met). BENZOIC ACID AND BENZOATE SALTS: Studies of benzoic acid and sodium benzoate in the Ames point mutation assay do not show evidence of mutagenicity. However, some studies have been reported to be positive in the less commonly used Bacillus subtilus recombination assay. In a number of cases adverse effects on the chromosome could be noticed, however also negative and/or equivocal results were reported. However many higher-level in vivo tests (clastogenicity inclusive) were negative. Sodium benzoate exhibited no genotoxicity in several in-vivo assays.

Reproductive toxicity: Not classified (based on available data, the classification criteria are not met). BENZOIC ACID AND BENZOATE SALTS: Reproductive toxicity (benzoic acid), 4-generation oral study in rats: NOAEL (no-observed adverse-effect-level) 500 mg/kg bw/day. Developmental toxicity (sodium benzoate), oral, rats and mice: NOAEL of >=175 mg/kg bw/day can be established for developmental effects.

Specific target organ toxicity (STOT) - single exposure: Not classified (based on available data, the classification criteria are not met).

Specific target organ toxicity (STOT) - repeated exposure: Causes damage to organs through prolonged or repeated exposure - Category 1. BENZOIC ACID: Repeated dose toxicity study, inhalation: NOAEC (No-Observed-Adverse-Effect-Concentration), inhalation, rat: 250 mg/m3 (systemic effects); 25 mg/m3 (local). Local effects including nasal redness, pulmonary fibrosis and inflammatory cell infitrates in the lungs were observed at lowest dose of 25 mg/m3. NOAEL (No-Observed-Adverse-Effect-Level), dermal, rabbit - 2500 mg/kg bw/day. READ-ACROSS (SODIUM BENZOATE): Repeated dose oral toxicity studies for salts of benzoic acids: NOAEL (no-observed-adverse-effect-level) 1000 mg/kg bw/day. BENZOIC ACID AND BENZOATE SALTS: At higher doses (oral) increased mortality, reduced weight gain, convulsions (central nervous system effects), liver and kidney effects were observed.

Aspiration hazard: Not classified (technical impossibility to obtain the data).

Other toxicity information: No additional information available.

SECTION 12: Ecological information

Ecotoxicity:

 Chemical Name
 Fish 96 hour LC50
 Fish 96 hour LC50
 Fish 96 hour LC50
 Fish Chronic NOEC

 Benzoic Acid
 44.6 mg/L
 47.3 mg/L
 >120 mg/L (28 days)

Chemical NameInvertebrates 48 hour EC50Invertebrates 24 hour EC50Invertebrates Chronic NOECBenzoic Acid>100 mg/L102-500 mg/L>=25 mg/L (21 days)

 Chemical Name
 Algae 96 hour EC50
 Algae 72 hour EC50
 Algae Chronic NOEC

 Benzoic Acid
 N/E
 >33.1 mg/L
 EC10=3.4 mg/L (72 hours)

Persistence and degradability:

 Chemical Name
 Biodegradation

 Benzoic Acid
 Readily biodegradable

Bioaccumulative potential:

 Chemical Name
 Bioconcentration Factor (BCF)
 Log Kow

 Benzoic Acid
 N/F
 1.88

Mobility in soil:

Chemical NameMobility in soil (Koc/Kow)Benzoic Acid15.49 (calculated)

Other adverse effects: No additional information available.

SECTION 13: Disposal considerations

Although this product is not defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261), recognize that in appropriate dust/air ratio, dust cloud in air may have explosion potential. Incinerate or landfill waste in a properly permitted facility in accordance with federal, state and local regulations.

See Section 8 for recommendations on the use of personal protective equipment.

SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN number: N/A

UN proper shipping name:

Not regulated - See Bill of Lading for Details

Transport hazard class(es):

U.S. DOT hazard class: N/A
Canada TDG hazard class: N/A
Europe ADR/RID hazard class: N/A
IMDG Code (ocean) hazard class: N/A
ICAO/IATA (air) hazard class: N/A

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: N/A

Environmental hazards:

Marine pollutant: Not Applicable

Hazardous substance (USA): BENZOIC ACID: When shipped over 5000 pounds (2270 kg.) in a single package: UN3077,

Environmentally Hazardous Substance, Solid, N.O.S. (Benzoic acid), 9. PG III, RQ.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Not Applicable

Special precautions for user: Not Applicable

Notes: This material is not regulated in packages containing less than the package reportable quantity (RQ).

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question:

U.S. federal and state regulations/legislation:

This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ):

 Chemical Name
 RQ (lbs)
 RQ (kg)

 Benzoic Acid
 5,000,00
 2,272.73

U.S. Superfund Amendments and Reauthorization Act (SARA) - SARA Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

None known

U.S. TSCA Section 12(b) Export Notification:

This product is not subject to TSCA 12(b) reporting requirements.

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or

other reproductive hazards:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Notes: No additional information

Canada regulations/legislation:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

Notes: No additional information

Mexico regulations/legislation:

This SDS contains the information required by NOM-018-STPS-2000 Workplace Hazardous Chemical Substances Communication and Identification Standard.

Notes: No additional information

Chemical inventories:

RegulationStatusCanadian Domestic Substances List (DSL):YCanadian Non-Domestic Substances List (NDSL):NU.S. Toxic Substances Control Act (TSCA):Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

SECTION 16: Other information

SDS Revision date: 2015-11-18

HMIS (Hazardous Materials Identification System) Ratings:

Health: 2* Flammability: 1 Reactivity (Stability): 0 Personal Protection: X

NFPA (National Fire Protection Association) Ratings:

Health: 2 Flammability: 1 Instability: 0

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.

Hazardous Materials Identification System (HMIS), National Paint and Coating Association, rating applies to product "as packaged" (i.e., ambient temperature). Ratings are based upon HMIS® III and NFPA 704 (2007). An asterisk appearing after the HMIS Health® III numerical rating denotes a chronic hazard. National Fire Protection Association (NFPA) rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

Legend:

*: Trademark owned by Emerald Performance Materials, LLC.

ACGIH: American Conference of Governmental Industrial Hygienists

N/A: Not Applicable N/E: None Established

STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

Users Responsibility/Disclaimer of Liability:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice

SDS Name: Purox* B Food/Pharma, ultra pure grade benzoic acid guidelines and employee instructional programs for your operation.

Safety Data Sheet Preparer: Product Compliance Department Emerald Performance Materials, LLC 2020 Front Street, Suite 100 Cuyahoga Falls, Ohio 44221 United States