

MSDS**Material Safety Data Sheet**

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Benzoic Acid**SECTION 1 PRODUCT IDENTIFICATION**

NAME: Benzoic Acid
 EKI ORDER NUMBERS: 2228, 2227
 SYNONYMS: N/A
 CAS NO: 65-85-0
 FORMULA: C₆H₅COOH
 REVISION DATE: 12 April 2004

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

WARNING! CAUSES EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT	CAS NO	OSHA PEL	ACGIH TLV
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Benzoic Acid	65-85-0	N/I	N/I

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: 0.29 g/100ml
 VAPOR PRESSURE: 1 @ 96 C
 SPECIFIC GRAVITY: 1.32
 EVAPORATION RATE: N/I
 APPEARANCE AND ODOR: White, needle-like crystals. Faint pleasant odor.

BOILING POINT: 249 C
 VAPOR DENSITY: 4.2
 MELTING POINT: 122 C

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT: 121C
 FLAMMABLE LIMITS (UPPER AND LOWER): Upper: N/I Lower: N/I
 EXTINGUISHING MEDIA: Water spray, dry chemical, "alcohol" foam, or carbon dioxide.
 SPECIAL FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration 0.011 g/l. Vapor may explode if ignited in an enclosed area. Vapor from molten benzoic acid may form explosive mixture with air.
 AUTOIGNITION TEMPERATURE: 570 C

SECTION 5 REACTIVITY DATA

STABILITY: Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID: Heat, flame, ignition sources, dusting and incompatibles.

MATERIALS TO AVOID: Oxidizing agents, bases, and metals. Water solutions can react with metals to produce hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic vapors and gas including phenol, benzene, and carbon monoxide when heated to decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE:

INHALATION: May cause irritation to the respiratory tract (nose and throat); symptoms may include coughing and sore throat.

SKIN CONTACT: If allowed to remain on skin, may cause irritation with redness and pain.

EYE CONTACT: Causes irritation with redness and pain.

SKIN ABSORPTION: N/I

INGESTION: Large oral doses may cause abdominal pain, sore throat, nausea, and vomiting.

CHRONIC: No information found.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: No information found.

CARCINOGENICITY: None

****FIRST AID PROCEDURES****

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

SKIN: Wash exposed area with soap and water. Get medical advice if irritation develops.

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area of leak or spill. Wear appropriate personal protective equipment. Clean up spills in a manner that does not disperse dust into the air. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

OTHER PRECAUTIONS: N/A

STORAGE: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Isolate from oxidizing materials. Isolate from flammable materials

SECTION 8 CONTROL MEASURES

VENTILATION: A system of local and/or general exhaust is recommended. Local exhaust ventilation is generally preferred.

RESPIRATORY PROTECTION: Half-face dust/mist respirator

EYE PROTECTION: Chemical safety goggles or full face shield

GLOVES: Chemical gloves

OTHER PROTECTIVE CLOTHING: Lab coat

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