# BENZOIC ACID

**Alpha Resources LLC**

**Safety Data Sheet**

**Issue Date: 02/19/2021**

## SECTION 1 Identification

### Product Identifier

| | |
|---|---|
| Product Name | BENZOIC ACID |
| Chemical Name | Benzoic Acid |
| Part Numbers | AEB2004, AP668, AR208, AR208C, AR208V, AR209, AR209C, AR209V, AR502, AR1790, AR1790C, AR1790V, AR2134, AR2134C, AR2134V, AR3403 |
| Chemical Formula | C7H6O2 |
| CAS Number | 65-85-0 |

### Company Information

| | |
|---|---|
| Registered Company Name | Alpha Resources LLC |
| Address | 3090 Johnson Road, Stevensville, MI 49127 United States |
| Telephone | (800) 833-3083 |
| Fax | (269) 465-3629 |
| Website | https://www.alpharesources.com |
| Email | sales@alpharesources.com |

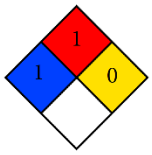
### Emergency Phone Number

| | |
|---|---|
| Association / Organization | CHEMTREC |
| Emergency Telephone No. | (800) 424-9300 |

## SECTION 2 Hazard(s) Identification

### Classification of the Substance or Mixture

**NFPA 704 Diamond**




Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health, Red = Fire, Yellow = Reactivity, White = Special (Oxidizer or water reactive substances)

| | |
|---|---|
| Classification | Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific target organ toxicity – repeated exposure Category 1, Acute Toxicity (Oral) Category 4, Specific target organ toxicity – single exposure Category 3 (respiratory tract irritation) |

### Label Elements

| | |
|---|---|
| Hazard Pictogram(s) |  |
| Signal Word | Danger |

### Hazard Statement(s)

| | |
|---|---|
| H312 | Harmful in contact with skin |

| | |
|---|---|
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H302 | Harmful if swallowed |
| H335 | May cause respiratory irritation |

### Hazard(s) not Otherwise Classified

Not applicable

### Precautionary Statement(s) Prevention

| | |
|---|---|
| P260 | Do not breathe dust/fume |
| P271 | Use only outdoors or in a well-ventilated area |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P270 | Do not eat, drink, or smoke when using this product. |

### Precautionary Statement(s) Response

| | |
|---|---|
| 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 |
| P362 | Take off contaminated clothing and wash before reuse |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P330 | Rinse mouth. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention |

### Precautionary Statement(s) Storage

| | |
|---|---|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed |

### Precautionary Statement(s) Disposal

| | |
|---|---|
| P501 | Dispose of contents/container to authorized hazardous or special waste collection point in accordance with any local regulation. |

## SECTION 3 Composition / Information on Ingredients

### Substances

| CAS No | %[weight] | Name |
|---|---|---|
| 65-85-0 | >=99.5 | benzoic acid |

## SECTION 4 First-Aid Measures

### Description of First Aid Measures

| | |
|---|---|
| Eye Contact | If this product comes in contact with the eyes:<br>➢ Wash out immediately with fresh running water.<br>➢ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.<br>➢ Pad BOTH eyes and make sure dressing does not press on the injured eye by placing thick pads under dressing, above and below the eye.<br>➢ Seek urgent medical assistance or transport to hospital. |

# BENZOIC ACID

| | |
|---|---|
| Skin Contact | If skin contact occurs:<br>➢ Immediately remove all contaminated clothing, including footwear.<br>➢ Flush skin and hair with running water (and soap if available).<br>➢ Seek medical attention in event of irritation.<br>In case of burns:<br>➢ Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth.<br>➢ Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. |
| Inhalation | ➢ If fumes or combustion products are inhaled remove from contaminated area.<br>➢ Lay patient down. Keep warm and rested.<br>➢ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.<br>➢ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.<br>➢ Transport to hospital, or doctor, without delay. |
| Ingestion | ➢ IF SWALLOWED, REFER TO MEDICAL ATTENTION WITHOUT DELAY.<br>➢ For advice, contact a Poison Control Center or a doctor.<br>➢ Urgent hospital treatment is likely to be needed.<br>➢ When medical attention is not immediately available or where patient is more than 15 minutes from a hospital or unless instructed otherwise, INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. |

### Most important symptoms and effects, both acute and delayed

See Section 11

## SECTION 5 Fire-Fighting Measures

### Extinguishing Media

➢ Foam, dry chemical powder, or carbon dioxide.

### Special hazards arising from the substrate or mixture

| | |
|---|---|
| Fire Incompatibility | Avoid contamination with oxidizing agents, i.e., nitrates, oxidizing acids, chlorine bleaches, pool chlorine, etc. as ignition may result |

### Special protective equipment and precautions for fire-fighters

| | |
|---|---|
| Fire Fighting | ➢ Alert fire department and tell them location and nature of hazard.<br>➢ Wear breathing apparatus plus protective gloves in the event of a fire.<br>➢ Prevent, by any means available, spillage from entering drains or water courses.<br>➢ Cool fire exposed containers with water spray from a protected location. |
| Fire / Explosion Hazard | ➢ Combustible solid which burns but propagates flame with difficulty.<br>➢ Combustion products include carbon monoxide, carbon dioxide, and other pyrolysis products typical of burning organic material.<br>➢ May emit poisonous fumes.<br>➢ May emit corrosive fumes. |

## SECTION 6 Accidental Release Measures

### Personal precautions, protective equipment, and emergency procedures

See section 8

### Environmental precautions

See section 12

### Methods and material for containment and cleaning up

| | |
|---|---|
| Minor Spills | ➢ Clean up all spills immediately.<br>➢ Avoid contact with skin and eyes.<br>➢ Control personal contact with the substance by using protective equipment.<br>➢ Use dry clean up procedures and avoid generating dust.<br>➢ Place in suitable containers for disposal. |
| Major Spills | ➢ Control personal contact by wearing protective clothing.<br>➢ Prevent, by any means available, spillage from entering drains or water courses.<br>➢ IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.<br>➢ Wash area with water and prevent runoff into drains. |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and Storage

### Precautions for safe handling

| | |
|---|---|
| Safe Handling | ➢ Avoid all personal contact, including inhalation.<br>➢ Wear protective clothing when risk of exposure occurs.<br>➢ Store in a dry, cool environment that is well ventilated.<br>➢ Avoid contact with incompatible materials.<br>➢ When handling, DO NOT eat, drink or smoke.<br>➢ Keep containers securely sealed when not in use.<br>➢ Always wash hands with soap and water after handling. |

### Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Suitable Container | ❖ Polyethylene or polypropylene container. |
| Storage Incompatibility | ❖ Avoid reaction with oxidizing agents. |

## SECTION 8 Exposure Controls / Personal Protection

### Control parameters

- ❖ **Occupational Exposure Limits (OEL)**
- ❖ **INGREDIENT DATA**

  Not available
- ❖ **Emergency Limits**

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|---|---|---|---|---|
| Benzoic Acid | Benzoic Acid | 13 mg/m3 | 140 mg/m3 | 830 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|---|---|---|
| Benzoic Acid | Not Available | Not Available |

### Exposure Controls

| | |
|---|---|
| Engineering Controls | ➢ Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace and safely remove dust from the air. |
| Eye and Face Protection | ➢ Safety glasses with side shields.<br>➢ Chemical goggles.<br>➢ Eye wash unit. |
| Skin and Body Protection | ➢ Protective over-garments or work clothing when machining. |

| | |
|---|---|
| Hand Protection | ➢ Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.<br>➢ Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity.<br>➢ Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present: polychloroprene, nitrile rubber, butyl rubber, fluorocaoutchouc, and polyvinyl chloride.<br>➢ Gloves should be examined for wear and/or degradation constantly. |
| Respiratory Protection | ➢ Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent) |

## SECTION 9 Physical and Chemical Properties

### Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | White Solid (crystals/powder) |
| Physical State | Divided solid |
| Odor | Similar to maple syrup - aromatic |
| Melting Point / Freezing Point (°C) | 122 |
| Initial Boiling Point and Boiling Range (°C) | 249 |
| Flash Point (°C) | 121 - 131 |
| Vapor Pressure | 0.13 @ 96 C |
| Solubility in Water | Immiscible |
| Relative Density (Water = 1) | 1.27 |
| Molecular Weight | 122.12 |
| pH as a Solution (1%) | 2.8 |
| Vapor Density (Air = 1) | 4.2 |

## SECTION 10 Stability and Reactivity

| | |
|---|---|
| Reactivity | See section 7 |
| Chemical Stability | ➢ Product is considered stable.<br>➢ Hazardous polymerization will not occur. |
| Possibility of Hazardous Reactions | See section 7 |
| Conditions to Avoid | See section 7 |
| Incompatible Materials | See section 7 |
| Hazardous Decomposition Products | See section 5 |

## SECTION 11 Toxicological Information

### Information on toxicological effects

| | |
|---|---|
| Inhaled | The material can cause respiratory irritation in some persons, including sore throat and cough. |
| Ingestion | Ingestion of material may be harmful. Large amounts can cause sore throat, nausea, vomiting, gastric pain, and other possible allergic reactions. |

## BENZOIC ACID

| | |
|---|---|
| Skin Contact | Material can cause inflammation of the skin on contact in some persons, resulting in redness and severe irritation. Repeated exposure may result in dermatitis.<br>Open cuts, abraded or irritated skin should not be exposed to this material |
| Eye | This material can cause sever eye damage. Acute: possible damage, redness, and pain. Chronic: conjunctivitis. |
| Chronic | Danger of serious damage to health by prolonged exposure through inhalation. |

| | |
|---|---|
| Benzoic acid | Toxicity –Dermal (Rabbit) LD50; >=2000 mg/kg[1]<br>Toxicity – Inhalation (Rat) LC50; >12,200 mg/m3 [1]<br>Toxicity – Oral (Rat) LD50; 2250 mg/kg[1]<br>Irritation – Eye (rabbit): 100 mg - SEVERE<br>Irritation – Skin (human): 22 mg/3d - moderate<br>Irritation – Skin (rabbit): 500 mg/24h - mild |

[1] Value obtained from Europe ECHA Registered Substances – Acute toxicity

| | | | |
|---|---|---|---|
| Acute Toxicity | √ | Carcinogenicity | X |
| Skin Irritation/Corrosion | √ | Reproductivity | X |
| Serious Eye Damage/Irritation | √ | STOT – Single Exposure | √ |
| Respiratory or Skin Sensitization | X | STOT – Repeated Exposure | √ |
| Mutagenicity | X | Aspiration Hazard | X |

*Legend:* X *– Data either not available or does not fill the criteria for classification*
√ *- Data available to make classification.*

## SECTION 12 Ecological Information

### Toxicity

| Endpoint | Test Duration (hr) | Species | Value | Source |
|---|---|---|---|---|
| LC50 | 96 | Fish | 0.899,g: | 2 |
| EC50(ECx) | 3 | Algae or other aquatic plants | 0.025mg/L | 2 |
| EC50 | 48 | Crustacea | >0.499mg/L | 2 |
| EC50 | 72 | Algae or other aquatic plants | 33mg/L | 1 |

[1] Values obtained from Europe ECHA Registered Substances – Ecotoxicological Information – Aquatic Toxicity
[2] Values obtained from US EPA, Ecotox database – Aquatic Toxicity Data

DO NOT discharge into sewer or waterways

**Persistence and Degradability –** Low

**Bioaccumulative Potential –** Low (LogKOW = 1.87)

**Mobility in Soil –** Low (KOC = 14.49)

## SECTION 13 Disposal Considerations

### Waste Treatment Methods

| | |
|---|---|
| Product / Packaging Disposal | ➢ Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.<br>➢ This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.<br>➢ DO NOT allow wash water from cleaning or process equipment to enter drains.<br>➢ It may be necessary to collect all wash water for treatment before disposal. |

| | |
|---|---|
| | ➢ In all cases, disposal to sewer may be subject to local laws and regulations and these should be considered first. |

## SECTION 14 Transport Information

### Labels Required

| | |
|---|---|
| Marine Pollutant | NO |

### Land transport (DOT):

Not regulated in this solid state.

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product Name | Group |
|---|---|
| Benzoic acid | Not Available |

### Transport in bulk in accordance with the ICG Code

| Product Name | Ship Type |
|---|---|
| Benzoic acid | Not Available |

## SECTION 15 Regulatory Information

### Safety, Health, and Environmental Regulations / Legislation Specific for the Substance or Mixture

❖ **Copper is found on the following regulatory lists**

| |
|---|
| US ACGIH Threshold Limit Values (TLV) |
| US CWA (Clean Water Act) – List of Hazardous Substances |
| US DOE Temporary Emergency Exposure Limits (TEELs) |
| US EPA Integrated Risk Information System (IRIS) |
| US Toxic Substances Control Act (TSCA) – Chemical Substance Inventory |
| US TSCA Chemical Substance Inventory – Interim List of Active Substances |

### Federal Regulations

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

❖ **Section 311/312 hazard categories**

| | |
|---|---|
| Flammable (Gases, Aerosols, Liquids, or Solids) | No |
| Gas under pressure | No |
| Explosive | No |
| Self-heating | No |
| Pyrophoric (Liquid or Solid) | No |
| Pyrophoric Gas | No |
| Corrosive to metal | No |
| Oxidizer (Liquid, Solid, or Gas) | No |
| Organic Peroxide | No |
| Self-reactive | No |
| In contact with water emits flammable gas | No |

## BENZOIC ACID

| | |
|---|---|
| Combustible Dust | No |
| Carcinogenicity | No |
| Acute toxicity (any route of exposure) | Yes |
| Reproductive toxicity | No |
| Skin Corrosion or Irritation | Yes |
| Respiratory or Skin Sensitization | No |
| Serious eye damage or eye irritation | Yes |
| Specific target organ toxicity (single or repeated exposure) | Yes |
| Aspiration Hazard | No |
| Germ cell mutagenicity | No |
| Simple Asphyxiant | No |
| Hazards Not Otherwise Classified | No |

❖ **US EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

| Name | Reportable Quantity in Pounds (lb) | Reportable Quantity in kg |
|---|---|---|
| Benzoic Acid | 5000 | 2270 |

### State Regulations

❖ **US California Proposition 65**

None Reported

### National Inventory Status

| National Inventory | Status |
|---|---|
| Australia – AIIC / Australia Non-Industrial Use | Yes |
| Canada – DSL | Yes |
| Canada – NDSL | No (benzoic acid) |
| China – IECSC | Yes |
| Europe – EINEC / ELINCS / NLP | Yes |
| Japan – ENCS | Yes |
| Korea – KECI | Yes |
| New Zealand – NZIoC | Yes |
| Philippines – PICCS | Yes |
| USA – TSCA | Yes |
| Taiwan – TCSI | Yes |
| Mexico – INSQ | Yes |
| Vietnam – NCI | Yes |
| Russia – FBEPH | Yes |
| ***Legend:*** | *Yes = All CAS declared ingredients are on the inventory*<br>*No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)* |

### SECTION 16 Other Information

| | |
|---|---|
| Revision Date | 05/26/2021 |
| Initial Date | 11/02/2015 |

## BENZOIC ACID

The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources LLC cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.