

**SECTION 1: Identification****1.1. Identification**

Product form	: Substance
Substance name	: BENZOIC ACID
CAS-No.	: 65-85-0
Product code	: AEB2004, AP668, AR208, AR208C, AR208V, AR209, AR209C, AR209V, AR502, AR1790, AR1790C, AR1790V, AR2134, AR2134C, AR2134V, AR3403
Formula	: C7H6O2

**1.2. Recommended use and restrictions on use**

No additional information available

**1.3. Supplier**

Alpha Resources LLC  
3090 Johnson Rd.  
Stevensville, Michigan 49127  
USA  
T (269)465-5559  
[info@alpharesources.com](mailto:info@alpharesources.com) - [www.alpharesources.com](http://www.alpharesources.com)

**1.4. Emergency telephone number**

Emergency number : CHEMTREC Emergency Phone Number: (800) 424-9300

**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS US classification**

Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Acute toxicity (inhalation:dust,mist) Category 1	H330	Fatal if inhaled
Full text of H statements : see section 16		

**2.2. GHS Label elements, including precautionary statements****GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302 - Harmful if swallowed

H330 - Fatal if inhaled

Precautionary statements (GHS US) :

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

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

P271 - Use only outdoors or in a well-ventilated area.

P284 - [In case of inadequate ventilation] wear respiratory protection.

P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P310 - Immediately call a poison center or doctor.

P320 - Specific treatment is urgent (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

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

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Other hazards which do not result in classification**

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name : BENZOIC ACID  
CAS-No. : 65-85-0

Name	Product identifier	%	GHS US classification
BENZOIC ACID	CAS-No.: 65-85-0	> 99	Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation:dust,mist), H330

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.  
Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust/fume/gas/mist/vapors/spray. Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### BENZOIC ACID (65-85-0)

No additional information available

#### BENZOIC ACID (65-85-0)

##### USA - ACGIH - Occupational Exposure Limits

Local name	Benzoic acid
ACGIH OEL TWA	0.5 mg/m <sup>3</sup> (IFV - Inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: Eye irr, URT irr, LRT irr; lung dam. Notations: Skin; A5 (Not Suspected as a Human Carcinogen)
Regulatory reference	ACGIH 2024

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder. Available as pellets, flakes, lumps or sticks.
Color	: white
Odor	: aromatic
Odor threshold	: No data available
pH	: 2.5-3.5
Melting point	: 121-125
Freezing point	: Not applicable
Boiling point	: 2489 °C
Flash point	: 121 °C Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: 13 Pa
Relative density	: 1.32
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Fatal if inhaled.

#### BENZOIC ACID (65-85-0)

ATE US (oral)	1734.517 mg/kg body weight
ATE US (dust, mist)	0.007 mg/l/4h

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<b>BENZOIC ACID (65-85-0)</b>	
LD50 oral rat	1700 mg/kg Source: International Uniform Chemical Information Database
LD50 oral	2250 mg/kg body weight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1875 - 2700
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit
LC50 Inhalation - Rat	> 12.2 mg/l air Animal: rat
ATE US (oral)	1717.172 mg/kg body weight
ATE US (dust, mist)	0.007 mg/l/4h
Skin corrosion/irritation	: Not classified pH: 2.5-3.5

<b>BENZOIC ACID (65-85-0)</b>	
pH	2.8 Temp.: 25 °C
Serious eye damage/irritation	: Not classified pH: 2.5-3.5

<b>BENZOIC ACID (65-85-0)</b>	
pH	2.8 Temp.: 25 °C
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

<b>BENZOIC ACID (65-85-0)</b>	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat
NOAEL (dermal,rat/rabbit,90 days)	> 2500 mg/kg body weight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity - 21/28 Days)
NOAEC (inhalation,rat,dust/mist/fume,90 days)	≤ 0.025 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable

<b>BENZOIC ACID (65-85-0)</b>	
Viscosity, kinematic	Not applicable

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<b>BENZOIC ACID (65-85-0)</b>	
LC50 - Fish [1]	0.899 g/l
EC50 - Crustacea [1]	> 0.499 mg/l
ErC50 other aquatic plants	33 mg/l

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<b>BENZOIC ACID (65-85-0)</b>	
LC50 - Fish [1]	47.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	860 mg/l Source: The ECOTOXicology database
LC50 - Fish [2]	44.6 mg/l Test organisms (species): Lepomis macrochirus
EC50 72h - Algae [1]	> 33.1 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 other aquatic plants	33 mg/l
NOEC (chronic)	≥ 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 120 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### **BENZOIC ACID (65-85-0)**

Partition coefficient n-octanol/water (Log Pow)	1.87 Source: National Library of Medicine/Hazardous Substances Data Bank
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable

#### TDG

Transport hazard class(es) (TDG) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

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### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

No data available

#### TDG

No data available

#### IMDG

No data available

#### IATA

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### BENZOIC ACID (65-85-0)

Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	5000 lb
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Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
BENZOIC ACID	65-85-0	Present	Active	

#### BENZOIC ACID (65-85-0)

Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	5000 lb
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### 15.2. International regulations

#### CANADA

#### BENZOIC ACID (65-85-0)

Listed on the Canadian DSL (Domestic Substances List)

#### BENZOIC ACID (65-85-0)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

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### National regulations

#### BENZOIC ACID (65-85-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### BENZOIC ACID (65-85-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Full text of H-phrases

H302	Harmful if swallowed
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H330	Fatal if inhaled
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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.