

# SAFETY DATA SHEET

Preparation Date: 8/7/2014

Revision Date: 8/7/2014

Revision Number: G1

## 1. IDENTIFICATION

### Product identifier

**Product code:** BE130  
**Product Name:** BENZOCAINE, USP

### Other means of identification

**Synonyms:** p-Aminobenzoic acid ethyl ester  
4-Aminobenzoic acid, ethyl esterAmericaine  
Anaesthesin  
Anesthesin  
Anesthone  
Keloform  
Topcaine  
Ethyl aminobenzoate  
Ethyl p-aminobenzoate  
Ethyl 4-aminobenzoateNorcain  
Orthesin  
Parathesin

**CAS #:** 94-09-7  
**RTECS #** DG2450000  
**CI#:** Not available

### Recommended use of the chemical and restrictions on use

**Recommended use:** Topical anesthetic.  
**Uses advised against** No information available

### Details of the Australian Supplier

Astral Scientific Pty Ltd  
29 Mangrove Lane  
Taren Point NSW 2229



**Company Phone Number** 02 9540 2055  
**E-mail Address** support@astralscientific.com.au

**Emergency telephone number** 13 11 26

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1

## Label elements

### Warning

#### Hazard statements

Causes eye irritation  
May cause an allergic skin reaction



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

May be harmful if swallowed  
Causes mild skin irritation

### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves

### Precautionary Statements - Response

Specific treatment (see .? on this label)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Benzocaine 94-09-7	94-09-7	100	*

## 4. FIRST AID MEASURES

### First aid measures

#### General Advice:

Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126).

#### Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

#### Eye Contact:

Flush eye with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

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

**Symptoms** Causes eye irritation. Mild skin irritation. May cause allergic skin reaction. It may cause dermatitis. May cause methemoglobinemia and cyanosis. Numbness and irritation of the mouth (tongue and lips). May cause nausea and vomiting. Dizziness. Ataxia. Dyspnea (Difficulty breathing and shortness of breath). Respiratory depression.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon monoxide; Carbon dioxide; Nitrogen oxides

**Specific hazards:** May be combustible at high temperatures

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal Precautions:** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

#### **Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from light. Sensitive to light. Store in light-resistant containers. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents. Bases. Acids. Reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Benzocaine - 94-09-7	None	None	None	None

##### **Canada**

Components	Alberta	British Columbia	Ontario	Quebec
Benzocaine - 94-09-7	None	None	None	None

##### **Australia and Mexico**

Components	Australia	Mexico
Benzocaine 94-09-7	None	None

### Appropriate engineering controls

#### **Engineering measures to reduce exposure:**

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

**Eye protection:** Goggles.

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Wear respirator with dust filter..

**Hygiene measures:**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Solid.

**Appearance:**

Crystalline. Crystalline powder. Powder.

**Color:**

White.

**Odor:**

No information available

**Taste**

No information available

**Formula:**

C9-H11-N-O2

**Molecular/Formula weight:**

165.19

**Flash point (°C):**

No data available

**Flashpoint (°C/°F):**

No information available.

**Flash Point Tested according to:**

Not applicable

**Lower Explosion Limit (%):**

No information available

**Upper Explosion Limit (%):**

No information available

**Autoignition Temperature (°C/°F):**

No information available

**pH:**

No information available

**Melting point/range(°C/°F):**

89-92 °C/192.2-197.6 °F

**Boiling point/range(°C/°F):**

310 °C/590 °F

**Decomposition temperature(°C/°F):**

No information available

**Specific gravity:**

No information available

**Density (g/cm3):**

No information available

**Bulk density:**

No information available

**Vapor pressure @ 20°C (kPa):**

No information available

**Evaporation rate:**

No information available

**Vapor density:**

No information available

**VOC content (g/L):**

No information available

**Odor threshold (ppm):**

No information available

**Partition coefficient (n-octanol/water):**

1.86

**Viscosity:**

No information available

**Miscibility:**

No information available

**Solubility:**

Practically insoluble in water  
 Solubility in Water: 1,310 mg/l (0.1 g/100 ml) of water at 25 deg. C  
 Soluble in dilute acids  
 Solubility in Chloroform: 1 gram dissolves in 2 ml of chloroform  
 Solubility in Ether: 1 gram dissolves in about 4 ml of Ether  
 Solubility in alcohol: 1 gram dissolves in about 5 ml of alcohol

## 10. STABILITY AND REACTIVITY

**Reactivity**

Reactive with oxidizing agents  
 Reacts with bases  
 Reactive with acids  
 Reacts with reducing agents

**Chemical stability****Stability:**

Stable at normal conditions

**Possibility of Hazardous Reactions:**

Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Exposure to light. Avoid dust formation. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.

**Incompatible Materials:** Oxidizing agents. Bases. Acids. Reducing agents.

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

**Other Information**

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Principal Routes of Exposure:**  
Ingestion. Inhalation. Skin.

**Acute Toxicity**

**Component Information**

*Benzocaine - 94-09-7*

- LD50/oral/rat = 3042 mg/kg
- LD50/oral/mouse = 2500 mg/kg
- LD50/dermal/rabbit = No information available
- LD50/dermal/rat = No information available
- LC50/inhalation/rat = No information available
- LC50/inhalation/mouse = No information available
- Other LD50 or LC50 information = No information available

**Product Information**

LD50/oral/rat =  
VALUE- Acute Tox Oral = 3042mg/kg

LD50/oral/mouse =  
Value - Acute Tox Oral = 2500mg/kg

LD50/dermal/rabbit  
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat  
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat  
VALUE-Vapor = No information available  
VALUE-Gas = No information available  
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse  
VALUE-Vapor = No information available  
VALUE - Gas = No information available  
VALUE - Dust/Mist = No information available

## Symptoms

<b>Skin Contact:</b>	May cause skin irritation. Mild skin irritation. May cause allergic skin reaction.
<b>Eye Contact:</b>	Causes eye irritation. Mild eye irritation.
<b>Inhalation Ingestion</b>	May cause irritation of respiratory tract. May cause digestive (gastrointestinal) tract irritation. May cause numbness of the mouth (lips and tongue). May cause methemoglobinemia, (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available hemoglobin). Signs and symptoms of methemoglobinemia include shortness of breath, cyanosis (a bluish discoloration of the mucous membranes and unpigmented areas of the body), mental status changes such as headache, mental impairment, fatigue, muscular weakness, exercise intolerance, lightheadness, dizziness, incoordination, seizures, and loss of consciousness. Arterial blood with elevated methemoglobin levels has a characteristic chocolate-brown color as compared to normal bright red oxygen containing arterial blood. Severe methemoglobinemia is characterized by bradycardia or tachycardia (slow or fast heart beat), dysrhythmias, seizures, coma and death. May affect respiration (respiratory depression).
<b>Aspiration hazard</b>	No information available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Chronic Toxicity</b>	Prolonged or repeated skin contact may cause allergic reaction Prolonged or repeated skin contact may cause allergic contact dermatitis Prolonged or repeated ingestion may cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, shortness of breath, cyanosis (a bluish discoloration of the skin, lips, nails due to deficient oxygenation of the blood), rapid heart rate, unconsciousness
<b>Sensitization:</b>	May cause sensitization by skin contact
<b>Mutagenic Effects:</b>	No information available
<b>Carcinogenic effects:</b>	Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Benzocaine	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

<b><u>Reproductive toxicity</u></b>	<u>No data is available</u>
<b>Reproductive Effects:</b>	No information available
<b>Developmental Effects:</b>	No information available
<b>Teratogenic Effects:</b>	No information available

## Specific Target Organ Toxicity

<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Target Organs:</b>	Blood. Methemoglobin formation.

## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

**Ecotoxicity effects:** Aquatic environment.

*Benzocaine - 94-09-7*

**Freshwater Fish Species Data:** 17.9 - 20.1 mg/L LC50 *Cyprinus carpio* 96 h static 1  
24.9 - 26.9 mg/L LC50 *Pimephales promelas* 96 h static 1  
34.6 - 36.1 mg/L LC50 *Pimephales promelas* 96 h flow-through 1  
5.92 - 9.76 mg/L LC50 *Oncorhynchus mykiss* 96 h static 1  
7.48 - 11.3 mg/L LC50 *Lepomis macrochirus* 96 h static 1

**Persistence and degradability:** Inherently biodegradable

**Bioaccumulative potential:** Potential for bioconcentration in aquatic organisms is low.

**Mobility:** It is expected to have moderate mobility based upon estimated Koc.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Benzocaine	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** Not regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** Not applicable  
**Packing Group:** None  
**Marine Pollutant:** No data available  
**ERG No:** No information available  
**DOT RQ (lbs):** No information available

### TDG (Canada)

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

### ADR

**UN-No:** Not Regulated



## 14. TRANSPORT INFORMATION

**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

### IMO / IMDG

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant** No information available  
**MFAG:** No information available  
**Maximum Quantity:** No information available

### RID

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

### IATA

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Benzocaine</i>	Present	Present KE-01203	Present	Present (3)-1443	Present	Present	Present 202-303-5

### U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Benzocaine	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Benzocaine	None	None	None	None	None

**U.S. TSCA**

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Benzocaine	Not Applicable	Not Applicable

**Canada****WHMIS hazard class:**

D2B Toxic materials

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

Components	Canada (DSL)	Canada (NDSL)
Benzocaine	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Benzocaine	Not listed	Not listed

**EU Classification****R-phrase(s)**

R36 - Irritating to eyes.

R43 - May cause sensitization by skin contact.

**S -phrase(s)**

S24 - Avoid contact with skin.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 - Wear suitable gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
Benzocaine		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

Xi - Irritant.

Xi



**16. OTHER INFORMATION**

NFPA	HMIS	Personal Protective Equipment
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Health Hazard	2
Fire Hazard	1
Reactivity	0



See Section 8.

Preparation Date: 8/7/2014  
Revision Date: 8/7/2014  
Prepared by: Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Material Safety Data Sheet**