

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2024

Revision date 01/30/2024

Page 1/8

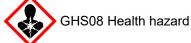
1 Identification

- · Product identifier
- · Trade name: Benzocaine
- **Synonym** Ethyl 4-Aminobenzoate 4-amino-benzoic acid, ethyl ester H-4-Abz-OEt NSC 4688 NSC 41531
- · Article number: 20132
- · CAS Number:
- 94-09-7
- EC number: 202-303-5
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department

• Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

Classification of the substance or mixture



Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to organs.

GHS07

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

(Contd. on page 2)

Printing date 01/30/2024

Revision date 01/30/2024

Trade name: Benzocaine

	(Contd. from page 1
· Label elements	
GHS label elements	
The substance is classified and labeled according to the • Hazard pictograms	Globally Harmonized System (GHS).
$\land \land$	
GHS07 GHS08	
· Signal word Danger	
· Hazard statements	
H317 May cause an allergic skin reaction.	
H370 Causes damage to organs.	
 Precautionary statements 	
P260 Do not breathe dust/fume/gas/mist/vapors/	spray.
P264 Wash thoroughly after handling.	
P270 Do not eat, drink or smoke when using this	
P272 Contaminated work clothing must not be al	owed out of the workplace.
P280 Wear protective gloves.	
P302+P352 If on skin: Wash with plenty of water.	
P307+P311 IF exposed: Call a POISON CENTER or do	
P333+P313 If skin irritation or rash occurs: Get medical P321 Specific treatment (see on this label).	auvice/allention.
P363 Wash contaminated clothing before reuse.	
P405 Store locked up.	
	ance with local/regional/national/internationa
regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 0	
$\begin{array}{c} \bullet \\ \bullet $	
Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH *1 Health = *1	
FIRE 0 FIRE 0 Reactivity 0	
Reactivity = 0	
· Other hazards	
Results of PBT and vPvB assessment	
· PBT: Not applicable.	
• vPvB: Not applicable.	
Composition/information on ingredients	

- · Chemical characterization: Substances
- **CAS No. Description** 94-09-7 Benzocaine

(Contd. on page 3)

Printing date 01/30/2024

Revision date 01/30/2024

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Identification number(s)

· EC number: 202-303-5

4 First-aid measures

· Description of first aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to section 13.
- · Reference to other sections

See Section 7 for information on safe handling.

- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- **PAC-3:** Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. (Contd. from page 2)

Printing date 01/30/2024

Revision date 01/30/2024

(Contd. from page 3)

Trade name: Benzocaine

Take precautionary measures against static discharge.re.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

Information on basic physica General Information	al and chemical properties	
Appearance:		
Form:	Solid	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C9H11NO2	

Printing date 01/30/2024

Revision date 01/30/2024

Trade name: Benzocaine

Molecular Weight	(Contd. from page 165.2 g/mol
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	88–90 °C (190.4–194 °F)
Boiling point/Boiling range:	172 °C (341.6 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined.
Bulk density:	320 kg/m ³
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water at 25 °C (77 °F):	0.4 g/l
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	DMF: 25 mg/mL; DMSO: 30 mg/mL; Ethanol: 30 mg/ml Ethanol:PBS(pH 7.2) (1:5): 0.16 mg/mL
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: carbon oxides, nitrogen oxides

(Contd. on page 6)

US

Printing date 01/30/2024

Revision date 01/30/2024

Trade name: Benzocaine

(Contd. from page 5)

· Info	CS Number DG24500 mation on toxicolog te toxicity:	
· LD/L	C50 values that are	relevant for classification:
Oral	LD50	2,500 mg/kg (mouse)
		3,042 mg/kg (rat)
	Intraperitoneal LD50	216 mg/kg (mouse)
· on tl · on tl · Sens	ary irritant effect: ne skin: No irritant effect ne eye: No irritating ef sitization: Sensitizatio itional toxicological i	ffect. on possible through skin contact.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

- Danger to drinking water if even small quantities leak into the ground.
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 7)

US

Printing date 01/30/2024

Revision date 01/30/2024

Trade name: Benzocaine

(Contd. from page 6)

not regulated
not regulated
not regulated
not regulated
Not applicable.
Not applicable.
of Not applicable
Not applicable.

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This 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. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. 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, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

(Contd. on page 8)

US

Printing date 01/30/2024

Revision date 01/30/2024

Trade name: Benzocaine

	(Contd. from page 7)
 Department issuing SDS: Environment protection department. 	
· Contact: -	
 Date of preparation / last revision 01/30/2024 	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) - Categ	ory 1
** Data compared to the previous version altered.	
	US