# usp

# SAFETY DATA SHEET

# 1. Identification

Product identifier Baclofen

Other means of identification

 Catalog number
 1048200

 CAS number
 1134-47-0

**Chemical name** β-(Aminomethyl)-p-chlorohydrocinnamic acid

**Recommended use** For analytical laboratory use only.

**Recommended restrictions** Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name**U. S. Pharmacopeia **Address**12601 Twinbrook Parkway

Rockville MD 20852-1790

United States

**Telephone** Technical Services 301-816-8129

Website www.usp.org
E-mail RSTECH@usp.org

Emergency phone number CHEMTREC within US & 1-800-424-9300

Canada

CHEMTREC outside US & +1 703-527-3887

Canada

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 3

Acute toxicity, dermal Category 4
Sensitization, skin Category 1
Reproductive toxicity Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Toxic if swallowed. Harmful in contact with skin. May cause an allergic skin reaction. May cause

drowsiness or dizziness. May damage fertility or the unborn child.

Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the

workplace.

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Response If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of

water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical

advice/attention.

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

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** Pharmacologically active material.

# 3. Composition/information on ingredients

#### **Substance**

Chemical name	Common name and synonyms	CAS number	%
Baclofen		1134-47-0	100

Information provided in the SDS is not specific to the lot provided. Refer to the label and USP Certificate/Product Information Sheet for the assigned value of a particular lot.

## 4. First-aid measures

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Do not use mouth-to-mouth method if the substance is inhaled. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Call a physician or poison control center immediately.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical

advice/attention if you feel unwell. Wash contaminated clothing before reuse.

Narcotic effects. Pharmacologically active material. Occupational exposure may cause

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

**Most important** 

symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

physiological effects.

**General information** 

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

## 5. Fire-fighting measures

Suitable extinguishing media Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

Specific methods

equipment/instructions

Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area.

Use standard firefighting procedures and consider the hazards of other involved materials.

Firefighters should use self-contained breathing equipment and protective clothing.

General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

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Methods and materials for containment and cleaning up Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For

waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

As a general rule, when handling USP materials, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.

Conditions for safe storage, including any incompatibilities

Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

## **Exposure limit values**

Industrial Use Material	Туре	Value
Baclofen (CAS 1134-47-0)	TWA	0.4 mg/m3

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

# Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

Skin protection

Hand protection

Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.

Other

Thermal hazards

Train employees in proper gowning and degowning practices. Wear lab coat, Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.

Respiratory protection

Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls.

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Handling practices in this SDS are recommendations for laboratory use of USP materials.

# 9. Physical and chemical properties

Appearance descriptions are general information and not specific to any USP lot. **Appearance** 

Solid. **Physical state Form** Powder. White. Color

Odor Nearly odorless. **Odor threshold** Not available. pН Not available.

Melting point/freezing point 402.8 - 406.4 °F (206 - 208 °C)

Initial boiling point and boiling

range

Not available.

Not available. Flash point **Evaporation rate** Not available.

Material name: Baclofen USP SDS US Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper

Flammability limit - lower

(%)

Not available.

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

**Vapor pressure** < 0.0000001 kPa (77 °F (25 °C))

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Slightly soluble.

Solubility (other) Methanol: Very slightly soluble.

Chloroform: Insoluble.

Dilute mineral acids: Soluble.

Dilute solutions of alkali hydroxides: Soluble.

Partition coefficient (n-octanol/water)

-0.96

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Chemical familyBenzene derivative.Molecular formulaC10H12CINO2

Molecular weight 213.66

# 10. Stability and reactivity

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

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Peroxides. Phenols. Strong oxidizing agents. Nitric acid.

**Hazardous decomposition** 

products

CI-. NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

# 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** May cause drowsiness and dizziness.

**Skin contact** Harmful in contact with skin. May cause an allergic skin reaction.

**Eye contact** Knowledge about health hazard is incomplete.

**Ingestion** Toxic if swallowed.

Symptoms related to the physical, chemical and

Central nervous system effects. Ringing in ears. Fainting. Visual disturbances. Urinary problems.

Muscle pain. Chest pain. Numbness of extremities. Stuffy nose. Difficulty sleeping.

toxicological characteristics Gastrointestinal disturbances

# Information on toxicological effects

**Acute toxicity** Toxic if swallowed. Harmful in contact with skin.

Product Species Test Results

Baclofen (CAS 1134-47-0)

Acute Dermal

LD50 Rabbit 290 mg/kg

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Product Species Test Results

Oral

LD50 Mouse 200 mg/kg

Rat 145 mg/kg

Skin corrosion/irritation Serious eye damage/eye Knowledge about health hazard is incomplete. Knowledge about health hazard is incomplete.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Knowledge about health hazard is incomplete.

Skin sensitization May cause an allergic skin reaction. Allergic reactions have been reported in literature following

the therapeutic use of a related material.

**Germ cell mutagenicity** Knowledge about mutagenicity is incomplete.

Carcinogenicity Based on available data, the classification criteria are not met.

< 500 mg/kg/day Carcinogenicity study Result: No evidence of carcinogenicity.

Species: Rat

Test Duration: 2 years

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** May damage fertility or the unborn child.

Reproductivity

12.5 mg/kg/day Reproductivity study Result: No increase in birth defects.

Species: Rat

15 mg/kg/day Reproductivity study Result: No increase in birth defects.

Species: Mouse

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

Knowledge about health hazard is incomplete.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information Pharmacologically active material. Occupational exposure may cause physiological effects.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this substance.

Octanol/water partition coefficient log Kow

-0.96

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the

user of the product to determine, at the time of disposal, whether the product meets RCRA criteria

for hazardous waste.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

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Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# 14. Transport information

DOT

**UN** number UN2811

**UN** proper shipping name Toxic soild, organic, n.o.s. (Baclofen)

Transport hazard class(es)

Class 6.1 Subsidiary risk Ш Packing group

**IATA** 

UN2811 **UN** number

UN proper shipping name Toxic solid, organic, n.o.s. (Baclofen)

Transport hazard class(es)

Class 6.1 Subsidiary risk Ш Packing group Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

Allowed with restrictions. Not applicable.

DOT; IATA



**General information** 

It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

## 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

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Classified hazard categories

Acute toxicity (any route of exposure) Respiratory or skin sensitization

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

#### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information, including date of preparation or last revision

Issue date 10-10-2008 Revision date 11-16-2021

Version # 05

United States & Puerto Rico

USP materials are sold for analytical laboratory use only, and NOT for human consumption. The Disclaimer

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No