

# **Scientific Documentation**

# Baclofen, USP

Not appropriate for regulatory submission.

Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp 769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300





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# Specification for Baclofen, USP (B1049)

Item Number	B1049
Item	Baclofen, USP
CAS Number	1134-47-0
Molecular Formula	$C_{10}H_{12}CINO_2$
Molecular Weight	213.66
MDL Number	
Synonyms	(RS)-Amino-3-(4-chlorophenyl)butyric Acid

Test	Specification	1
	Min	Max
ASSAY (ANHYDROUS BASIS)	98.0	102.0 %
WATER DETERMINATION		3.0 %
RESIDUE ON IGNITION		0.3 %
ELEMENTAL IMPURITIES	AS REPORTED	
ORGANIC IMPURITIES		
BACLOFEN RELATED COMPOUND A		1.0 %
ANY INDIVIDUAL, UNSPECIFIED IMPURITY		0.10 %
TOTAL IMPURITIES		2.0 %
IDENTIFICATION A ( FTIR)	SPECTRUM MATCHES REFERENCE	
IDENTIFICATION (B)	RETENTION TIME CORRESPONDS TO STANDARD	
APPEARANCE		
EXPIRATION DATE		
DATE OF MANUFACTURE		
RESIDUAL SOLVENTS	AS REPORTED	

# Spectrum Chemical Mfg Corp

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248732.214.1300310.516.8000



# **Certificate Of Analysis**

Item Number	B1049	Lot Number	4LD0031
Item	Baclofen, USP	Manufacturer Lot	BACL/017/21-22
CAS Number	1134-47-0	Manufacturer Code	13524
Molecular Formula	$C_{10}H_{12}CINO_2$	Molecular Weight	213.66

TECT	SPECIF	ICATION	BECLUT
TEST	MIN	MAX	RESULT
ASSAY (ANHYDROUS BASIS)	98.0	102.0 %	100.2 %
WATER DETERMINATION		3.0 %	0.1 %
RESIDUE ON IGNITION		0.3 %	<0.3 %
ELEMENTAL IMPURITIES	AS REPORTED		COMPLIES WITH STANDARD
ORGANIC IMPURITIES			
BACLOFEN RELATED COMPOUND A		1.0 %	0.0 %
ANY INDIVIDUAL, UNSPECIFIED IMPURITY		0.10 %	0.0 %
TOTAL IMPURITIES		2.0 %	0.0 %
IDENTIFICATION A ( FTIR)	SPECTRUM MATCHES REFERENCE		SPECTRUM MATCHES REFERENCE
IDENTIFICATION (B)	RETENTION TIME CORRESPONDS TO STANDARD		RETENTION TIME CORRESPONDS TO STANDARD
APPEARANCE			WHITE POWDER
EXPIRATION DATE			31-JAN-2027
DATE OF MANUFACTURE			01-FEB-2022
RESIDUAL SOLVENTS	AS REPORTED		
CLASS 2 (SOLVENT) / METHANOL			<3000 ppm

Certificate of Analysis Results Entered By:

SVANGOOR Swetha Vangoor 29-JUN-22 11:52:37

Spectrum Chemical Mfg Corp 777 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

BPATEL Bhargavi Patel 29-JUN-22 12:14:38

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

Spectrum Chemical Mfg. Corp. repackages Active Pharmaceutical Ingredient chemicals provided by other manufacturers and suppliers. For traceability purposes, Spectrum's Certificate of Analysis contains an identifier code unique to each manufacturer or supplier, as well as the chemical's lot number provided on the original manufacturer Certificate of Analysis. This material is manufactured by Medilux Laboratories Private Limited at Plot No. 98-99, Sector -1, Industrial Area, Pithampur, Dist. Dhar, Pithampur, Madhya Pradesh 454775, India (IND). Copies of the original Certificate of Analysis are available upon request from your Spectrum Sales Representative or by calling Spectrum's Quality Department at 1-800-772-8786.





# SAFETY DATA SHEET

Preparation Date: 04/15/2015 Revision Date: 6/22/2018 **Revision Number: G2** 

# 1. IDENTIFICATION

**Product identifier** 

Product code: B1049

**Product Name:** BACLOFEN, USP

Other means of identification

Baclon Synonyms:

Benzenepropanoic aicd, beta-(aminomethyl)-4-chloro-(9Cl)

Hydrocinnamic acid, beta-(aminomethyl)-p-chloro-

beta-(4-Chlorophenyl)gaba

beta-(Aminomethyl)-4-chlorobenzenepropanoic acid beta-(Aminomethyl)-p-chlorohydrocinnamic acid beta-(p-Chlorophenyl)-gamma-aminobutyric acid

gamma-Amino-beta-(p-chlorophenyl)butyric acid

CAS #: 1134-47-0 MW5084200 RTECS# CI#: Not available

Recommended use of the chemical and restrictions on use

Medication, Drug. Recommended use: No information available Uses advised against

Supplier: Spectrum Chemical Mfg. Corp

> 14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300 Contact Person: Martin LaBenz (West Coast) **Contact Person:** Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

## Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3

#### Label elements

Product code: B1049 Product name: BACLOFEN, USP 1/12

#### Danger

#### Hazard statements

Toxic if swallowed

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May damage fertility or the unborn child

May cause respiratory irritation



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing must not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

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 water

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

# **Precautionary Statements - Storage**

Store locked up

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

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

Product code: B1049 Product name: BACLOFEN, USP 2 / 12

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Baclofen	1134-47-0	100

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect

himself.

**Skin Contact:** Wash off immediately with soap and plenty of water. Get medical attention. Consult a

physician if necessary.

**Eye Contact:** Flush eyes 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. WARNING! It may be hazardous to the person providing aid to give

mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

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

unconscious person. Immediate medical attention is required. Call a physician or Poison

Control Center immediately.

Most important symptoms and effects, both acute and delayed

**Symptoms** Causes serious eye irritation

Causes skin irritation

May cause irritation of respiratory tract

Drowsiness Dizziness

May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Toxic if swallowed

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: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Product code: B1049 Product name: BACLOFEN, USP 3 / 12

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. Keep people away from and upwind of spill/leak. Use personal

protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all

sources of ignition.

**Environmental precautions** Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

**Methods for containment**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

# Precautions for safe handling

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

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Remove all sources of ignition. Keep away from incompatible materials.

## Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not ingest. 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. Store away from incompatible materials. Store in a segregated and approved area.

## **Incompatible Materials:**

Oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### National occupational exposure limits

**United States** 

Product code: B1049 Product name: BACLOFEN, USP 4/12

	Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Ī	Baclofen	1134-47-0	None	None	None	None

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Baclofen	1134-47-0	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Baclofen	1134-47-0	None	None

#### **Appropriate engineering controls**

**Engineering measures to reduce exposure:** Provide exhaust ventilation or other engineering controls to

keep the airborne concentrations of vapors and mist below

their respective threshold limit value.

# Individual protection measures, such as personal protective equipment

## **Personal Protective Equipment**

**Eye protection:** Safety glasses with side-shields or Goggles

Skin and body protection: Long sleeved clothing

Gloves apron

**Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator

under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Powder. White. Off-white.

Odor: Taste Formula:

Odorless. No information available. C10-H12-CI-N-O2

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

213.66 g/mol No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 207°C/404.6°F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available No information available No information available

Product code: B1049 Product name: BACLOFEN, USP 5 / 12

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

No information available No information available No information available

**Evaporation rate:** Vapor density:

VOC content (g/L): No information available No information available No information available

**Partition coefficient** Odor threshold (ppm): Viscosity:

No information available No information available (n-octanol/water):

No information available

Miscibility: Solubility:

No information available Partially soluble in cold water

Very slightly soluble in Methanol

Insoluble in Acetone

Very slightly soluble in alcohol

Insoluble in Chloroform

Dissolves in dilute mineral acids and in dilute solutions of alkali hydroxides

# 10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

**Chemical stability** 

Stable under recommended storage conditions. Stability:

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Heat. Avoid dust formation. Incompatible materials. Conditions to avoid:

**Incompatible Materials:** Oxidizing agents

**Hazardous decomposition** 

products:

Carbon oxides. Nitrogen oxides (NOx).

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Principal Routes of Exposure:** 

Ingestion. Inhalation.

**Acute Toxicity** 

## **Component Information**

Baclofen CAS-No. 1134-47-0

LD50/oral/rat = 145 mg/kg Oral LD50 Rat

LD50/oral/mouse = 200 mg/kg

**LD50/dermal/rabbit** = No information available

Product code: B1049 Product name: BACLOFEN, USP 6/12 LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 145 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 200 mg/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

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

**Inhalation** Inhalation of dust or powder may cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause dry mouth, excessive salivation, taste

alterations, increased sweating, skin rashes, pruritus, nausea, vomitng, hypermotility, diarrhea or constipation, tinnitius, muscular pain and weakness, paraesthesias. May affect behavior/central nervous system (drowsiness,

somnolence, dizziness, lassitude, headache, lightheadedness, confusion, fatigue,

slurred speech, ataxia, seizures/convulsions, hallucinations, depression,

agression, insomnia, delirium, tremors, increase in spasticity, coma), vision/eyes (visual disturbances - blurred vision, pupils are often dilated with slulggish or no reaction to light, nystagmus (involuntary eye movement)), respiration (respiratory depression), brain, urinary system (urinary retention/incontinence, cardiosvasular

system (hypotension, pulse rate change

(bradycardia or tachycardia), cardiovascular depression), liver (alterations in liver function values), respiration (dyspnea, respiratory depression),. It may also cause

blood sugar changes.

**Aspiration hazard** No information available.

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

**Chronic Toxicity** Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated

inhalation may affect the bone marrow (changes in bone marrow). Medical Conditions Aggravated by Exposure: Peptic ulcer; renal impairment; porphyria;

respiratory disorders.

Product code: B1049 Product name: BACLOFEN, USP 7 / 12

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Baclofen	1134-47-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity May damage fertility or the unborn child

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure

Target Organs:

Respiratory system.

No information available.

No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

# 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	CAS-No.	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series	
		Wastes	Wastes	Wastes	Wastes	
Baclofen	1134-47-0	None	None	None	None	

Product code: B1049 Product name: BACLOFEN, USP 8 / 12

#### 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solids, organic, n.o.s.(baclofen)

Hazard Class: 6.1

Subsidiary Class No information available

Packing group: III Emergency Response Guide 154

Number

Marine Pollutant
DOT RQ (lbs):
No information available
Special Provisions
IB8, IP3, T1, TP33

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

**Description:** UN2811, Toxic solids, organic, n.o.s., 6.1, III

TDG (Canada)

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

**ADR** 

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1 Packing Group:

Subsidiary Risk: No information available

Special Provisions 274, 614

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

IMO / IMDG

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solids, organic, n.o.s.(baclofen)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 223, 274

**Description** UN2811, Toxic solid, organic, n.o.s. (BACLOFEN), 6.1, III

**RID** 

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Special Provisions 274, 614

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

**ICAO** 

**UN-No:** UN2811

Product code: B1049 Product name: BACLOFEN, USP 9 / 12

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

Special Provisions A3, A5

**IATA** 

**UN-No:** UN2811

**Proper Shipping Name:** Toxic solid, organic, n.o.s.

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group: III ERG Code: 6L

**Special Provisions**No information available

**Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III

## 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Baclofen	1134-47-0	Not Listed	Present KE-01454	Not present	Not present	Not present	Present	Present 214-486-9

## **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	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Baclofen	1134-47-0	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 - Chemical Category	Section 313 - Reporting
		Substances and	Hazardous	Hazardous	Chemical Category	de minimis
		their Reportable Quantities	Substances and TPQs	Substances and RQs		
Baclofen	1134-47-0	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
Baclofen	1134-47-0	Not Applicable	Not Applicable

## Canada

#### WHIMIS 2015 - GHS Classifications

Product code: B1049 Product name: BACLOFEN, USP 10 / 12

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### WHMIS 1988 Hazard Class

D1B 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	CAS-No.	Canada (DSL)	Canada (NDSL)
Baclofen	1134-47-0	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Baclofen	1134-47-0	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Baclofen	1134-47-0	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Baclofen	1134-47-0	

#### EU - CLP (1272/2008)

#### R-phrase(s)

R25 - Toxic if swallowed.

R43 - May cause sensitization by skin contact.

## S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Baclofen	1134-47-0		No information	

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

# Indication of danger:

T - Toxic



# **16. OTHER INFORMATION**

Product code: B1049 Product name: BACLOFEN, USP 11 / 12

Preparation Date: 04/15/2015
Revision Date: 6/22/2018
Prepared by: Sonia Owen

Disclaimer: All ch

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 Safety Data Sheet** 

Product code: B1049 Product name: BACLOFEN, USP 12 / 12



## Certification of Compliance with current Good Manufacturing Practices

#### Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
B1049	Baclofen, USP

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632 Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at <a href="mailto:qualityassurance@spectrumchemical.com">qualityassurance@spectrumchemical.com</a>

Sincerely,

Oralia Chavez

**Quality Assurance Specialist** 

Order Clony



# B1049, Baclofen, USP

## **Source Statement**

The above mentioned catalog item is manufactured by chemical synthesis. No animal or plant derived products are used in the manufacturing process.

# **BSE/TSE Statement**

The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

# **Allergen Statement**

The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy

- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

# **EU Fragrance Allergen Statement**

The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore are not expected to be present.

## **GMO Statement**

The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

## **Melamine Statement**

The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.



# **Nitrosamine Statement**

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in this material.

# **Animal Testing Statement**

The above mentioned catalog item has not been tested on animals.

# **Organic Compliance Statement**

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

# **Shelf Life Statement**

The above mentioned catalog item is typically assigned a shelf life of 60 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

# **Other Chemicals Statement**

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances

- Parabens
- Pesticides
- Phthalates
- Preservatives



# RE: Elemental Impurities - Baclofen, USP (Cat# B1049)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. The following elemental impurities are likely to be present:

Elemental Impurity		Class	Expected Concentration
Arsenic	As	1	< 1.5 ppm
Cobalt	Со	2A	< 5 ppm
Vanadium	V	2A	< 10 ppm
Nickel	Ni	2A	< 20 ppm
Lithium	Li	3	< 55 ppm
Antimony	Sb	3	< 120 ppm
Copper	Cu	3	< 300 ppm

Other elemental impurities considered by USP <232>, <233> and ICH Q3D which are not addressed in the above mentioned table are not likely to be present. These substances are not used in the production process, are not intentionally added or known to be present in the above mentioned material.

This information is subject to change and is intended for risk assessment only. It is responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY

14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843



# RE: Residual Solvents - Baclofen, USP (Cat# B1049)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned catalog item complies with the requirements of USP <467> Residual Solvents and ICH Q3C Residual Solvents Guideline. The following solvents are likely to be present:

Residual Solvent	Class	Expected Concentration
Methanol	2	< 3000 ppm

No Class 1, Class 3 or other solvents are used or produced in the manufacturing process of this material.

For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

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FAX 310.516.9843



# **Label Information**

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

# DANGER

0000-00-00



• Toxic if swallowed • Causes serious eye irritation • Causes skin irritation • May cause respiratory irritation • May cause drowsiness or dizziness • May cause an allergic skin reaction • May cause allergy or asthma symptoms or breathing difficulties if inhaled • May damage fertility or

\* the unborn child.

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FIRST AID: 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 attention. If No SKIN: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF INHALED: If breathing is difficult, remove person of tresh air and keep comfortable for breathing, If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. If exposed or concerned: Get medical attention.

**KEEP FROM CHILDREN** 

B1049

SIZ SY

# **Baclofen**

**USP** 

CAS 1134-47-0

CAUTION: For manufacturing, processing, repacking, or for prescription compounding. Rx only.

Read and understand the label and Safety Data Sheet (SDS) prior to use.

DOT: UN2811, Toxic solid, organic, n.o.s. (baclofen), 6.1, PG III

Chemical Emergency: (800)424-9300

www.SpectrumChemical.com

C<sub>10</sub>H<sub>12</sub>CINO<sub>2</sub> F.W. 213.66

Manufacturer/Supplier Code	
Assay (Anhydrous Basis)	98.0-102.0%
Water Determination	3.0%
Residue on Ignition	0.3%
Elemental Impurities	As reported
Organic Impurities:	
Baclofen Related Compound A	1.0%
Any Unspecified Impurity	0.10%
Total Impurities	2.0%
Residual Solvents	To pass test

Store at Room Temperature: Keep tightly closed.

**WARNING:** Cancer and Reproductive Harmwww.P65Warnings.ca.gov

Repackaged by Spectrum as:

B 12/J2GHS-A

Lot No. XQ####

# Spectrum Chemical Mfg Corp

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