

# **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 <sub>10</sub> H <sub>12</sub> CINO <sub>2</sub>
Molecular Weight	213.66
MDL Number	
Synonyms	(RS)-Amino-3-(4-chlorophenyl)butyric Acid

Test	Specification	l
	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 08901	Gardena, CA 90248
732.214.1300	310.516.8000



# **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 <sub>10</sub> H <sub>12</sub> CINO <sub>2</sub>	Molecular Weight	213.66

TFCT	SPECIFICATION			
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



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.

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



# 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-chlorobeta-(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 **Recommended use:** Medication. Drug. 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

#### 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

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components		CAS-No.	Weight %	
Baclofen		1134-47-0	100	
	4. FIRST	AID MEASURES		
First aid measures				
General Advice:	have a poison emer 1-800-222-1222. Er	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 physician if necessary		of water. Get medical attention. Consult a	
Eye Contact:	Flush eyes with water	for 15 minutes. Get i	nedical attention.	
Inhalation:	oxygen. WARNING! It mouth-to-mouth resus corrosive. Do not use substance; induce arti	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:		mmediate medical at	vice. Never give anything by mouth to an tention is required. Call a physician or Poison	
Most important symptoms and	effects, both acute and de	layed		
Symptoms	Causes serious eye ir Causes skin irritation May cause irritation of Drowsiness Dizziness May cause an allergic May cause allergy or a Toxic if swallowed	f respiratory tract	breathing difficulties if inhaled	
Indication of any immediate me	edical attention and specia	I treatment needed		
Notes to Physician:	Treat symptomatically	<i>י</i> .		
Protection of first-aiders First-Aid Providers: Avoid expos contaminated clothing and equip			er necessary protective clothing. Dispose of	
5. FIRE-FIGHTING MEASURES			ES	
Extinguishing Media Suitable Extinguishing Med			e (CO2). Dry chemical. Water spray mist or	
Unsuitable Extinguishing M Specific hazards arising f		No information	available.	

#### **Hazardous Combustion Products:**

Specific hazards:

#### Special Protective Actions for Firefighters

**Specific Methods:** 

Special Protective Equipment for Firefighters:

Carbon Monoxide, Carbon Dioxide. Nitrogen Oxides.

May be combustible at high temperatures.

No information available.

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** 

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
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:	<b>Appearance:</b>	<b>Color:</b>
Solid	Powder.	White. Off-white.
<b>Odor:</b>	<b>Taste</b>	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 (%):	<b>Melting point/range(°C/°F):</b>	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):

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available pH: No information available

Vapor density: No information available

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

Solubility: 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

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscositv: No information available

#### **10. STABILITY AND REACTIVITY**

Reactivity Reactive with oxidizing agents

#### **Chemical stability**

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Incompatible materials.
Incompatible Materials:	Oxidizing agents
Hazardous decomposition products:	Carbon oxides. 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.

#### **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 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 weaknes paraesthesias. May affect behavior/central nervous system (drowsiness, somnolence, dizziness, lassitude, headache, lightheadedness, confusion, fa slurred speech, ataxia, seizures/convulsions, hallucinations, depression, agression, insomnia, delirium, tremors, increase in spasticity, coma), vision/ (visual disturbances - blurred vision, pupils are often dilated with slulggish or reaction to light, nystagmus (involuntary eye movement)), respiration (respir depression), brain, urinary system (urinary retention/incontinence, cardiosva system (hypotension, pulse rate change (bradycardia or tachycardia), cardiovascular depression), liver (alterations in function values), respiration (dyspnea, respiratory depression),. It may also de blood sugar changes.	tigue, eyes r no atory isular
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 repeatinhalation may affect the bone marrow (changes in bone marrow). Medical Conditions Aggravated by Exposure: Peptic ulcer; renal impairment; porphyrrespiratory disorders.	
Product code: B1049	Product name: BACLOFEN LISP	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	Respiratory system.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

#### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

**Ecotoxicity effects:** 

No data ava	ailable.
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Persistence and degradability:	No information available
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- **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 Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Baclofen	1134-47-0	None	None	None	None

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:	154	
Emergency Response Guide Number	154	
Marine Pollutant	No data available	
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 technica	
	names of the hazardous material must be entered in parentheses, in associa	ation
	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:	III Na la factoria d'activitation	
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:	III No information available	
Subsidiary Risk: Special Provisions	No information available 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) 6.1	
Hazard Class: 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		
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:	III
Description:	UN2811, Toxic solid, organic, n.o.s., 6.1, III
Special Provisions	A3, A5
IATA UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: ERG Code: Special Provisions Description:	UN2811 Toxic solid, organic, n.o.s. 6.1 No information available III 6L No information available 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.

<u>Chemicals Known to the State of California to Cause Cancer:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> 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 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 de minimis
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)	()
Baclofen	1134-47-0	Not Applicable	Not Applicable

#### Canada

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 L. Toxic Substances

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**

Preparation Date:	04/15/2015
Revision Date:	6/22/2018
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 Safety Data Sheet

#### 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: Spectrum-New Brunswick, NJ: 2020632 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 <u>qualityassurance@spectrumchemical.com</u>

Sincerely,

Oulu Umy

Oralia Chavez Quality Assurance Specialist

# 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	Co	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 <u>TechServices@spectrumchemical.com</u>.

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

AN ISO 9001:2015 REGISTERED COMPANY

#### 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 <u>TechServices@spectrumchemical.com</u>.

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www.spectrumchemical.com

# **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.



#### Spectrum Chemical Mfg Corp

#### Corporate Headquarters:

769 Jersey Ave. New Brunswick, NJ 08901 West Coast Facility: 14422 S. San Pedro St. Gardena, CA 90248

310.516.8000

732.214.1300