

## **Scientific Documentation**

## Capsaicin, 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 Capsaicin, USP (C1869)**

Item Number	C1869
Item	Capsaicin, USP
CAS Number	404-86-4
Molecular Formula	C <sub>18</sub> H <sub>27</sub> NO <sub>3</sub>
Molecular Weight	305.41
MDL Number	
Synonyms	

Test	Specification	Specification		
	Min	Max		
TOTAL CAPSAICINOIDS	90.0	110.0 %		
CAPSAICIN (C <sub>18</sub> H <sub>27</sub> NO <sub>3</sub> )	55 %			
DIHYDROCAPSAICIN (C <sub>18</sub> H <sub>29</sub> NO <sub>3</sub> )	20 %			
MELTING RANGE	57°	66°C		
LOSS ON DRYING		1.0 %		
OTHER CAPSAICINOIDS		15 %		
RESIDUE ON IGNITION		1.0 %		
ELEMENTAL IMPURITIES	AS REPORTED			
IDENTIFICATION	COLOR AND Rf VALUE CORRESPONDS TO STANDARD			
EXPIRATION DATE				
DATE OF MANUFACTURE				
APPEARANCE				
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	C1869	Lot Number	4MG0049
Item	Capsaicin, USP	Manufacturer Lot	API-04/A1/23-24
CAS Number	404-86-4	Manufacturer Code	15265
Molecular Formula	C <sub>18</sub> H <sub>27</sub> NO <sub>3</sub>	Molecular Weight	305.41

тгст	SPECIFI	CATION	реснит	
TEST	MIN	MAX	RESULT	
TOTAL CAPSAICINOIDS	90.0	110.0 %	90.7 %	
CAPSAICIN (C <sub>18</sub> H <sub>27</sub> NO <sub>3</sub> )	55 %		62.3 %	
DIHYDROCAPSAICIN (C <sub>18</sub> H <sub>29</sub> NO <sub>3</sub> )	20 %		23.7 %	
MELTING RANGE	57°	66°C	63.2 - 65.7°C	
LOSS ON DRYING		1.0 %	0.02 %	
OTHER CAPSAICINOIDS		15 %	4.7 %	
RESIDUE ON IGNITION		1.0 %	0.3 %	
ELEMENTAL IMPURITIES	AS REPORTED		COMPLIES WITH STANDARD	
IDENTIFICATION	COLOR AND Rf VALUE CORRESPONDS TO STANDARD		COLOR AND Rf VALUE CORRESPOND TO STANDARD	
EXPIRATION DATE			01-JUL-2026	
DATE OF MANUFACTURE			01-JUL-2023	
APPEARANCE			OFF-WHITE POWDER	
RESIDUAL SOLVENTS	AS REPORTED			
CLASS 2 (solvent) / HEXANE			<290 ppm	
CLASS 2 (SOLVENT) / METHANOL			<3000 ppm	

Certificate of Analysis Results Entered By:

MCAMACHO Matheu Camacho 09-NOV-23 08:36:06

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 AUDI PHARMA INGREDIENTS at D9/B, Gem Apartments 27th Cross Street, Maharajanagar, Tirunelveli, TAMIL NADU 627011, India (IND). Copies of the original Certificate of Analysis are available upon request from your Spectrum's Sales Representative or by calling Spectrum's Quality Department at 1-800-772-8786.

BPATEL Bhargavi Patel 13-NOV-23 07:46:30

# spectrum®



### SAFETY DATA SHEET

Preparation Date: 03/31/2016 Revision Date: 06/27/2018 Revision Number: G2 **1. IDENTIFICATION** Product identifier Product code: C1869 Product Name: CAPSAICIN, USP Other means of identification (E)-8-Methyl-N-vanillyl-6-nonenamide Synonyms: 6-Nonenamide, 8-methyl-N-vanillyl-, (E)- (8CI) 8-Methyl-N-vanillyl-6-nonenamide Capsaicine N-((4-Hydroxy-3-methoxyphenyl)methyl)-8-methyl-6-nonenamide trans-8-Methyl-N-vanillyl-6-nonenamide trans-N-((4-Hydroxy-3-methoxyphenyl)methyl)-8-methyl-6-nonenamide CAS #: 404-86-4 **RTECS #** RA8530000 Not available CI#: Recommended use of the chemical and restrictions on use **Recommended use:** Topical analgesic. Animal and insect repellant. Uses advised against No information available Spectrum Chemical Mfg. Corp Supplier: 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 https://www.spectrumchemical.com Order Online At: Emergency telephone number Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Contact Person: 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
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 cause respiratory irritation



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

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

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

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

Specific treatment (see .? on this label) Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of 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 %
Capsaicin, natural	404-86-4	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 removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
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. Obtain medical attention. Call a physician or Poison Control Center immediately.
Most important symptoms and effe	cts, both acute and delayed
Symptoms Indication of any immediate medica	Toxic if swallowed Irritating to eyes and skin Redness and burning sensation on skin Lacrimation Causes conjunctivitis Burning sensation or pain of the eyes Irritating to respiratory system Sensitizing May cause an allergic skin reaction May cause allergic respiratory reaction Causes digestive (gastrointestinal) tract irritation May cause gastritis May cause abdominal pain, nausea, vomiting, diarrhea May affect behavior/central nervous system (tremor, convulsions) Al attention and special treatment needed
Notes to Physician:	Treat symptomatically.
Protection of first-aiders	

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

#### 5. FIRE-FIGHTING MEASURES

Extinguishing Media Suitable Extinguishing Media:

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

#### Unsuitable Extinguishing Media:

No information available.

#### Specific hazards arising from the chemical

Hazardous Combustion Products:Carbon Monoxide, Carbon Dioxide. Nitrogen Oxides.Specific hazards:May be combustible at high temperatures.Special Protective Actions for FirefightersNo information available.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. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contai	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

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

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

#### Safe Handling Advice

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

#### Conditions for safe storage, including any incompatibilities

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

Keep containers tightly closed in a cool, well-ventilated place. Keep refrigerated. Store at 2-8 deg. C. Store away from incompatible materials.

#### 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
Capsaicin, natural	404-86-4	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Capsaicin, natural	404-86-4	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Capsaicin, natural	404-86-4	None	None

#### Appropriate engineering controls

#### Engineering measures to reduce exposure:

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

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

#### **Personal Protective Equipment**

Eye protection:	Goggles						
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves						
Respiratory protection:	Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.						
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.						
9	9. PHYSICAL AND CHEMICAL PROPERTIES						
Physical state: Solid	Appearance: Powder.	<b>Color:</b> Off-white.					
<b>Odor:</b> Pungent.	<b>Taste</b> Burning.	Formula: C18H27NO3					
Molecular/Formula weight: 305.41	Flammability: No information available	Flashpoint (°C/°F): No information available.					
Flash Point Tested according to Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available					
Upper Explosion Limit (%):							

No information available

Boiling point/range(°C/°F): 210-220 °C/410-428 °F

**Specific gravity:** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available Melting point/range(°C/°F): 65 °C/149 °F

Bulk density: No information available

**pH:** No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): 3.04

**Solubility:** Practically insoluble in cold water Freely soluble in alcohol Freely soluble in Benzene Freely soluble in Ether Soluble in carbon tetrachloride Soluble in Petroleum Ether **Decomposition temperature(°C/°F):** No information available

**Density (g/cm3):** No information available

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

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

Viscosity: No information available

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

<u>Reactivity</u> 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:	When heated to decomposition it emits toxic fumes. Nitrogen oxides (NOx). Carbon monoxide.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation. Skin.

#### Acute Toxicity

#### **Component Information**

Capsaicin, natural					
LD50/oral/mouse = 47.2 mg, 60 - 294mg/kg (LOLI) LD50/dermal/rabbit = No inform LD50/dermal/rat = No inform LC50/inhalation/rat = No info	ormation available lation available ormation available				
Product Information					
LD50/oral/rat = VALUE- Acute Tox Oral = No in	formation available				
LD50/oral/mouse = Value - Acute Tox Oral = 47.2	mg/kg				
LD50/dermal/rabbit VALUE-Acute Tox Dermal = No	information available				
LD50/dermal/rat VALUE -Acute Tox Dermal = No	o information available				
LC50/inhalation/rat VALUE-Vapor = No information VALUE-Gas = No information av VALUE-Dust/Mist = No informat	ailable				
LC50/Inhalation/mouse VALUE-Vapor = No information VALUE - Gas = No information a VALUE - Dust/Mist = No information	vailable				
<u>Symptoms</u>					
Skin Contact:	Causes skin irritation. Moderately irritating to the skin. Causes burning or stinging pain and redness without blistering.				
Eye Contact:	Causes serious eye irritation. Moderately irritating to the eyes. Causes intense tearing. Causes blepharospasm (forcible closure of the eyelids). Causes a burning sensation or pain. Causes conjunctival irritation.				
Inhalation Irritating to respiratory system.					
Ingestion Toxic if swallowed. May cause salivation. May cause cyanosis. May affect behavior/central nervous system (tremor, convulsions). Causes digestive (gastrointestinal) tract irritation. May cause gastritis. May cause abdominal pain, nausea, vomiting, diarrhea.					
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 exposure may cause allergic respiratory and skin reactions. Prolonged or repeated inhalation may cause allergic reaction. Skin: Prolonged or repeated skin contact may cause allergic skin reaction.				

#### Sensitization:

May cause sensitization by inhalation and skin contact.

**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
Capsaicin, natural	404-86-4	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	No data is available		
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 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 Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Capsaicin, natural	404-86-4	None	None	None	None

#### 14. TRANSPORT INFORMATION

DOT UN-No:	Not Regulated	
Proper Shipping Name: Hazard Class:	Toxic solids, organic, n.o.s. (capsaicin) 6.1	
Subsidiary Class	No information available	
Packing group: Emergency Response Guide	No information available No information available	
Number		
Marine Pollutant DOT RQ (lbs):	No data available No information available	
Special Provisions	No Information available	-1
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 associa	
Description	with the basic description. UN2811,Toxic solids, organic, n.o.s. ,6.1,PG III	
Description:		
TDG (Canada) UN-No:	UN2811	
Proper Shipping Name:	Toxic solid, organic, n.o.s.	
Hazard Class: Subsidiary Risk:	6.1 No information available	
Packing Group:	III	
Marine Pollutant Description:	No Information available UN2811,TOXIC SOLID, ORGANIC, N.O.S.,6.1,PG III	
ADR		
UN-No:	UN2811	
Proper Shipping Name: Hazard Class:	Toxic solid, organic, n.o.s. 6.1	
Packing Group:	III	
Subsidiary Risk: Description:	No information available UN2811 Toxic solid, organic, n.o.s.,6.1,III	
IMO / IMDG		
UN-No:	UN2811	
Proper Shipping Name: Hazard Class:	Toxic solid, organic, n.o.s. 6.1	
Subsidiary Risk:	No information available	
Packing Group: Marine Pollutant	III No information available	
EMS:	F-A	
RID		
UN-No:	UN2811	
Proper Shipping Name: Hazard Class:	Toxic solid, organic, n.o.s. 6.1	
Subsidiary Risk:	No information available	
Packing Group: Description:	III UN2811 Toxic solid, organic, n.o.s.,6.1,III	
ICAO		
UN-No:		
Proper Shipping Name: Hazard Class:	Toxic solid, organic, n.o.s. 6.1	
Subsidiary Risk:	No information available	
Packing Group: Description:	UN2811,Toxic solid, organic, n.o.s.,6.1,PG III	
Product code: C1869	Product name: CAPSAICIN, USP	9/12

ΙΑΤΑ	
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,PG III

#### **15. REGULATORY INFORMATION**

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Capsaicin, natural	404-86-4	Present(ACTI VE)	Not present	Not present	Present (3)-711	Not present	Present	Present 206-969-8

#### **U.S. Regulations**

Capsaicin, natural

FDA - 21 CFR - Total Food Additives Present (not regulated under 21 CFR)

#### 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	Reproductive	Female Reproductive Toxicity:
Capsaicin, natural	404-86-4	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
C	apsaicin, natural	404-86-4	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
Capsaicin, natural	404-86-4	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Capsaicin, natural

Product code: C1869

WHMIS 2015 Hazard Classification Acute toxicity - Oral - Category 3: H301 Toxic if swallowed. 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** 

D1B,D2B

#### WHMIS 1988 Hazard Class

D1B Toxic materials D2B Toxic materials

#### Components

Capsaicin, natural

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)
Capsaicin, natural	404-86-4	Not Listed	Present

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Capsaicin, natural	404-86-4	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Capsaicin, natural	404-86-4	Not listed

#### **EU Classification**

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

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Capsaicin, natural	404-86-4	No information

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

#### R-phrase(s)

R25 - Toxic if swallowed.

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

#### S -phrase(s)

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

S28 - After contact with skin, wash immediately with plenty of water

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S36/37 - Wear suitable protective clothing and gloves.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Capsaicin, natural	404-86-4		No information	

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

#### Indication of danger:

T - Toxic Xi - Irritant.



#### **16. OTHER INFORMATION**

Preparation Date: Revision Date: Prepared by: 03/31/2016 06/27/2018 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** 

## spectrum

#### 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
C1869	Capsaicin, 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:	<u>2020632</u>
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 <u>gualityassurance@spectrumchemical.com</u>

Sincerely,

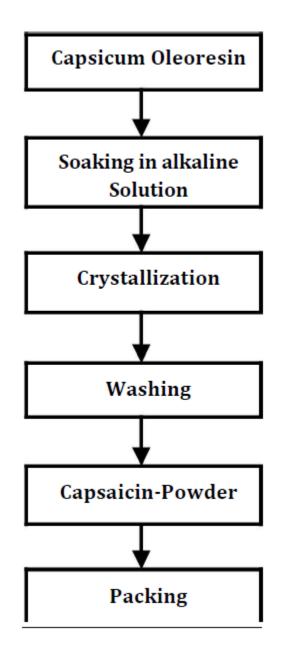
Oulu Clamy

Oralia Chavez Quality Assurance Specialist



#### **Manufacturing Process Flowchart**

Capsaicin, USP (Cat# C1869)



#### 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

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## spectrum

### C1869, Capsaicin, USP

#### **Source Statement**

The above mentioned catalog item is manufactured from Red Chilies. No animal 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

## spectrum

#### **RE: Elemental Impurities - Capsaicin, USP (Cat# C1869)**

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. No Class 1, Class 2A, Class 2B or Class 3 elemental impurities are 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

## spectrum®

#### RE: Residual Solvents - Capsaicin, USP (Cat# C1869)

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
Hexane	2	< 290 ppm
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 TechServices@spectrumchemical.com.

Sincerely,

Technical Services Spectrum Chemical Mfg. Corp.

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### **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