spectrum®



SAFETY DATA SHEET

Preparation Date: 03/31/2016	Revision Date: 06/27/2018	Revision Number: G2
	1. IDENTIFICATION	
Product identifier		
Product code: Product Name:	C1414 CAPSAICIN, NATURAL	
Other means of identification Synonyms: CAS #: RTECS # CI#:	(E)-8-Methyl-N-vanillyl-6-nonenamide 6-Nonenamide, 8-methyl-N-vanillyl-, (E)- (8CI) 8-Methyl-N-vanillyl-6-nonenamide Capsaicine N-((4-Hydroxy-3-methoxyphenyl)methyl)-8-methyl-6 trans-8-Methyl-N-vanillyl-6-nonenamide trans-N-((4-Hydroxy-3-methoxyphenyl)methyl)-8-me 404-86-4 RA8530000 Not available	
Recommended use of the chen		
Recommended use: Uses advised against	Topical analgesic. Animal and insect repellant. No information available	
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) 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:	have a poi 1-800-222	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	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:		s person. Obtain medical attenti	rice. Never give anything by mouth to an on. Call a physician or Poison Control Center
Most important symptoms and	effects, both act	ute and delayed	
Symptoms	Redness ar Lacrimation Causes cor Burning ser Irritating to Sensitizing May cause May cause May cause May cause May cause May cause	eyes and skin nd burning sensation on skin njunctivitis nsation or pain of the eyes respiratory system an allergic skin reaction allergic respiratory reaction estive (gastrointestinal) tract irrit gastritis abdominal pain, nausea, vomiti behavior/central nervous system	ng, diarrhea
Indication of any immediate me	edical attention a	nd special treatment needed	
Notes to Physician:	Treat symp	tomatically.	
Protection of first-aiders First-Aid Providers: Avoid expose	ure to blood or bo	dy fluids. Wear gloves and othe	r necessary protective clothing. Dispose of

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:

Specific hazards arising from the chemical

Hazardous Combustion Products:

Specific hazards:

Special Protective Actions for Firefighters

Specific Methods:

Special Protective Equipment for Firefighters:

No information available.

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	e 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. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:	Color:
Solid	Powder.	Off-white.
Odor:	Taste	Formula:
Pungent.	Burning.	C18H27NO3
Molecular/Formula weight: 305.41	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	

Product code: C1414

Product name: CAPSAICIN, NATURAL

Not 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 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 Lower Explosion Limit (%): No information available

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.

Component Information

Capsaicin, natural		
CAS-No.	404-86-4	
LD50/oral/rat = 148.1 mg/kg Oral LD50 Rat; 161.2 mg/kg Oral LD50 Rat LD50/oral/mouse = 47.2 mg/kg (RTECS) 60 - 294mg/kg (LOLI) 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 = > 512 mg/kg Dermal LD50 dermal Mouse		
Product Information		
LD50/oral/rat = VALUE- Acute Tox Oral = No int	formation available	
LD50/oral/mouse = Value - Acute Tox Oral = 47.2 r	ng/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 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		
<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:

Product code: C1414

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: Proper Shipping Name: Hazard Class: Subsidiary Class Packing group: Emergency Response Guide Number Marine Pollutant DOT RQ (lbs): Special Provisions Symbol(s): Description:	Not Regulated Toxic solids, organic, n.o.s. (capsaicin) 6.1 No information available No information available No information available No data available No information available No Information available [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. UN2811,Toxic solids, organic, n.o.s. ,6.1,PG III
TDG (Canada) UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant Description: ADR UN-No:	UN2811 Toxic solid, organic, n.o.s. 6.1 No information available III No Information available UN2811,TOXIC SOLID, ORGANIC, N.O.S.,6.1,PG III
Proper Shipping Name: Hazard Class: Packing Group: Subsidiary Risk: Description:	Toxic solid, organic, n.o.s. 6.1 III No information available UN2811 Toxic solid, organic, n.o.s.,6.1,III
IMO / IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant EMS:	UN2811 Toxic solid, organic, n.o.s. 6.1 No information available III No information available F-A
RID UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Description:	UN2811 Toxic solid, organic, n.o.s. 6.1 No information available III UN2811 Toxic solid, organic, n.o.s.,6.1,III

ICAO	
UN-No:	UN2811
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,PG III
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,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.

<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)

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
				Toxicity	Toxicity:
Capsaicin, natural	404-86-4	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
Capsaicin, 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 404-86-4 (100) 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 Hazard Class

D1B Toxic materials D2B Toxic materials

Components	WHMIS 1988
Capsaicin, natural	D1B,D2B

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	CAS-No.	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:	03/31/2016
Revision Date:	06/27/2018
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