

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	CAPSAICIN, USP (Natural)
PRODUCT CODE	2777
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126
USES	Dermatological Agent (Topical analgesic)

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Acute Toxicity - Oral (Category 3) Acute Toxicity - Dermal (Category 5) Eye Irritation (Category 2A) Skin Irritation (Category 2) Sensitization - Skin (Category 1) Specific Target Organ Toxicity - Single Exposure (Category 3) - respiratory tract irritation
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PICTOGRAM

SIGNAL WORD

Danger

HAZARD STATEMENT(S)

 Toxic if swallowed
 May be harmful if in contact with skin
 Causes skin irritation
 Causes serious eye irritation
 May cause an allergic skin reaction.
 May cause respiratory irritation.

AUSTRALIA-ONLY HAZARDS

Not Applicable

PRECAUTIONARY STATEMENT(S)

Prevention

- Wash thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid breathing dust, fume, gas, mist, vapors, and spray
- Wear protective gloves, protective clothing, eye protection, face protection
- Contaminated work clothing must not be allowed out of the workplace
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood

Response IF SWALLOWED: Immediately call a poison center or medical professional; Rinse mouth. 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 (HAIR): Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF EXPOSED OR CONCERNED: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local regulation.

HMIS CLASSIFICATION

Health Hazard	2	Flammability	1
Reactivity	0	Personal Protection	E

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME (E)-N- [(4-hydroxy-3-methoxyphenyl)-methyl]-8-methyl-6-nonenamide

BOTANICAL NAME Not applicable

SYNONYM (E)-8-Methyl-N-vanillyl-6-nonenamide

CHEMICAL FORMULA C₁₈H₂₇NO₃

CAS NUMBER 404-86-4

ALTERNATE CAS NUMBER Not applicable

MOLECULAR WEIGHT 305.4

COMPOSITION

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
CAPSAICIN	404-86-4	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

NOTES Chemical family: Cytotoxic alkaloid.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

IN CASE OF SKIN CONTACT Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SYMPTOMS AND EFFECTS Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL Not applicable

FLAMMABLE PROPERTIES May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS Under fire conditions, hazardous fumes will be present.

EXTINGUISHING MEDIA

Small fire: dry chemical, CO₂ or water spray. **Large fire:** dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT

On land, sweep or shovel into suitable containers. Minimize generation of dust.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

SECTION 7: HANDLING AND STORAGE
PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

STORAGE CONDITIONS

Store in original container, tightly sealed container, protected from direct sunlight, in a dry and well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Preserve in tight containers, protected from light and store at 8° - 15°C.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: CAPSAICIN CAS #: 404-86-4

	TWA	Ceiling	STEL	REL	IDLH	Remarks
OSHA PEL	N/L	N/L	-	-	-	-
ACGIH TLV	N/L	N/L	N/L	-	-	-
NIOSH	N/L	N/L	N/L	N/L	N/L	-
AIHA WEEL	N/L	N/L	N/L	-	-	-
Safe Work Australia HSIS	N/L	N/L	N/L	-	-	-
HSE	N/L	N/L	N/L	-	-	-

N/L = Not Listed

EXPOSURE GUIDELINES

Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid				
DESCRIPTION	Off-white powder				
SOLUBILITY	Soluble in alcohol, in benzene, in chloroform; slightly soluble in carbon disulfide; practically insoluble in cold water.				
ODOR	Odorless or characteristic, pungent odor.				
FLAMMABILITY	May be combustible at high temperature				
ODOR THRESHOLD	Not available	pH	Not available	MELTING POINT	(57 - 66)°C, (134.6-150.8)°F
BOILING POINT	Not available	FREEZING POINT	(57 - 66)°C, (134.6-150.8)°F	FLASH POINT	112.77 °C, 234.986 °F
SPECIFIC GRAVITY	Not available	EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available
UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	VAPOR PRESSURE	< 0.0000001 kPa (25°C)
VAPOR DENSITY (AIR = 1)	Not available	RELATIVE DENSITY (WATER = 1)	Not available	log P (OCTANOL-WATER)	4.0
AUTO-IGNITION TEMPERATURE	Not available	DECOMPOSITION TEMPERATURE	65 °C, 149 °F	VISCOSITY	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established
STABILITY	Stable under recommended storage conditions
MATERIALS TO AVOID	Strong oxidants
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur
HAZARDOUS POLYMERIZATION	Will not occur
POSSIBILITY OF HAZARDOUS REACTION	Not established
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): 148.1 Dermal: Rabbit LD50: (mg/kg): >2500 Inhalation: Rat: LD50: (mg/L/4hr): Not available
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SKIN CORROSION/IRRITATION

Causes skin irritation.
 1 % Irritancy test
 Result: Irritant.
 Species: Human
 Organ: Skin
 Test Duration: 30 minutes
 Severity: Mild.

SERIOUS EYE DAMAGE/EYE IRRITATION

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITIZATION

Respiratory sensitization: Classification not possible.
 Skin sensitization: May cause an allergic skin reaction. Contact dermatitis has been reported in the literature.
 Delayed contact hypersensitivity test
 Result: Sensitizing.
 Species: Guinea pig
 Organ: Skin

GERM CELL MUTAGENICITY

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

CARCINOGENICITY

OSHA CAPSAICIN is not listed.
NTP CAPSAICIN is not listed.
IARC CAPSAICIN is not evaluated.
California Proposition 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY INFORMATION

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

REPRODUCTIVE TOXICITY

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

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Respiratory tract irritation.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

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

ASPIRATION HAZARDS

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

SIGNS AND SYMPTOMS OF EXPOSURE

HANDLE CAPSAICIN WITH CARE, prevent inhalation of particles of it and prevent its contact with any part of the body.

Symptoms related to the physical, chemical, and toxicological characteristics
 Burning skin. Stinging skin. Skin rash. Tearing. Sneezing. Coughing. Vomiting. Diarrhea.

Delayed and immediate effects of exposure
 Bronchitis. Insensitivity to painful stimuli. Inhibition of platelet aggregation.

Cross sensitivity Persons sensitive to paprika or hot peppers (fruits of the Capsicum plants) may be sensitive to this material also.

POTENTIAL HEALTH EFFECTS

Inhalation May be harmful if inhaled. Cause respiratory tract irritation. Prevent inhalation of particles.
Ingestion Toxic if swallowed.
Skin May be harmful if absorbed through skin. Causes skin irritation. A warm, stinging or burning sensation may occur at the site of application.
Eyes Causes serious eye irritation.

SECTION 12: ECOLOGICAL INFORMATION
TOXICITY

LC50: 96 Hr: Fish: (mg/L): Not available
 IC50: 72 Hr: Algae: (mg/L): Not available
 EC50: 48 Hr: Daphnia magna: (mg/L): Not available

PERSISTENCE AND DEGRADABILITY	Not available
BIOACCUMULATIVE POTENTIAL	LogPow: 4.0
MOBILITY IN SOIL	Practically insoluble in cold water
OTHER ADVERSE EFFECTS	Not available
	This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.
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SECTION 14: TRANSPORT INFORMATION

UNITED STATES & CANADA

UN PROPER SHIPPING NAME	TOXIC SOLID, ORGANIC, N.O.S.
UN NUMBER	2811
CLASS	6.1
PACKING GROUP	III

AUSTRALIA

UN PROPER SHIPPING NAME	TOXIC SOLID, ORGANIC, N.O.S.
UN NUMBER	2811
CLASS	6.1
PACKING GROUP	III
HAZCHEM	2X

ENVIRONMENTAL HAZARDS	Not available
SPECIAL SHIPPING INFORMATION	Not applicable

SECTION 15: REGULATORY INFORMATION

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355 Appendix A	EPA 40 CFR Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
CAPSAICIN 404-86-4	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods Regulation	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors
CAPSAICIN 404-86-4	N/L	N/L	N/L

SECTION 16: OTHER INFORMATION**REFERENCES**

Available upon request

ABBREVIATIONS AND ACRONYMS

CAS – Chemical Abstract Service; **GHS** – Global Harmonized System; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **TWA** – Time Weighted Average; **HSIS** – Hazardous Substances Information System; **STEL** – Short Term Exposure Limit; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **LD50** – Lethal Dose, 50%; **IARC** – International Agency for Research on Cancer; **NTP** – National Toxicology Program; **WHMIS** – Workplace Hazardous Materials Information System; **SARA** – Superfund Amendments and Reauthorization Act; **EPA** – Environmental Protection Agency; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **HMIS** – Hazardous Materials Information System; **NIOSH** – National Institute for Occupational Safety and Health; **MSHA** – Mine Safety and Health Administration; **ACGIH** – American Conference of Governmental Industrial Hygienists; **IDHL** – Immediately Dangerous to Health or Life; **TLV** – Threshold Limit Value; **HSE** – Health and Safety Executive; **REL** – Recommended Exposure Limit

LAST REVISION

08/2017

SUPERSEDES

03/2016

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA[®] shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.