



SAFETY DATA SHEET

CAPSICUM TINCTURE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: CAPSICUM TINCTURE

PRODUCT NO: RM057

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2 HAZARDS IDENTIFICATION

Primary Hazards: Highly Flammable

Physicochemical Effects: Highly Flammable

Health Effects:

Eyes	May cause a burning sensation on contact, even in minute quantities.
Ingestion	May cause a burning sensation in the lips, tongue and oral mucosa, which may lead to vomiting and diarrhoea in sensitive individuals. Ethanol: Principle effect is central nervous system depression, which may cause headaches, nausea, vomiting, muscular incoordination, loss of consciousness and respiratory failure. Aspiration during swallowing or vomiting will damage lungs.
Inhalation	Vapour concentrations in excess of the occupational exposure limit may cause irritation of the eyes, nose and throat. High concentrations will produce central nervous system depression and symptoms and effects similar to those for ingestion.
Skin	May cause slight irritation, with burning and redness. May cause skin sensitisation in some people.

Environmental Effects: No test data.

3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION	An extract of the dried ripe fruits of Capsicum (Capsicum minimum Roxb. And/or Capsicum frutescens L.), containing approximately 86%v/v Ethanol (CAS No 64-17-5) and water. Contains approximately 0.03%w/v Capsaicin (CAS No 404-86-4).		
HAZARDOUS COMPONENTS			
Constituent	Typical	EC Number	Classification
Capsaicin	0.03%w/v	206-969-8	T: R25; Xi: R37/38, R41, R42/43
Ethanol	85%v/v	200-578-6	F: R11 Highly Flammable
CAS NUMBER	84625-29-6		

4 FIRST-AID MEASURES

EYES

Remove contact lenses if possible. Irrigate eyes with water or eye wash solution for at least fifteen minutes holding the eye open. Seek medical attention if discomfort persists.

INGESTION

Wash mouth out thoroughly with water. DO NOT INDUCE VOMITING. The giving of charcoal slurry is suggested (240ml diluent/30g charcoal). Keep warm and at rest. If there are any difficulties with breathing give oxygen; if breathing stops or gives signs of failing apply artificial respiration and SEEK MEDICAL ASSISTANCE.

INHALATION

Remove to fresh air, keep warm and at rest. If there are any difficulties with breathing give oxygen; if breathing stops or gives signs of failing apply artificial respiration and SEEK MEDICAL ASSISTANCE.

SKIN

Remove contaminated clothing, this should not be worn again until it has been laundered. Wash contaminated skin with soap and water. Seek medical assistance if discomfort persists.

ADVICE TO PHYSICIANS

Treat as alcoholic poisoning. Casein containing substances such as milk can reduce the burning sensation.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, AFFF foam, chemical dry powder or carbon dioxide.

UNSUITABLE EXTINGUISHING MEDIA

Water jet.

SPECIAL HAZARDS

Burning will produce acrid smoke, irritating fumes, carbon monoxide, carbon dioxide and capsaicin vapours that may cause pulmonary irritation and cough, possible oedema and bronchospasm.

PROTECTIVE EQUIPMENT

Self contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Goggles, gloves and overalls should be worn. Extinguish sources of ignition, ventilate area.

ENVIRONMENTAL PRECAUTIONS

Do not allow product to enter drains and watercourses. Inform local authority and fire service if preparation enters drains or watercourses.

SPILLAGE

Extinguish sources of ignition. Absorb spillage using a proprietary absorbent or sand, scoop up and place in a suitable container; remove to a safe place and dispose of through a licensed waste disposal contractor. Ventilate area thoroughly. Wash contaminated area thoroughly with water and detergent.

7 HANDLING AND STORAGE

HANDLING

Goggles, gloves and overalls should be worn. Hands should be well washed with soap and water after handling product. Use in a well-ventilated area. Avoid static build up when pouring; earthing of container and receptacle may be required.

STORAGE

Store in well closed containers, away from heat and source of ignition.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS

1000ppm or 1900mg/m³ 8 hour TWA (Ethanol).

ENGINEERING CONTROL MEASURES

Local exhaust ventilation.

EYE PROTECTION

Goggles or face-shield.

GENERAL PROTECTION

Overalls and gloves.

RESPIRATORY PROTECTION

Use suitable organic vapour/particulate respirators and components tested and approved to appropriate government standards (e.g. CEN, NIOSH etc.) if fumes or vapour may be present above the threshold limit.

SKIN/HAND/PROTECTION

Suitable protective gloves, e.g. PVC or nitrile rubber.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	
Colour:	Yellow-brown	
Odour:	Characteristic odour	
pH:	5.0 – 7.0	
Boiling Point °C:	>78.0	
Flash Point °C:	17.5 (closed cup)	
Explosion Limits:	Lower Limit 3.5%v/v	Upper Limit 19.0%v/v for Ethanol
Solubility in Water:	Yes	
Solubility in:	Ethanol	
Vapour Pressure (hPa):	No test data	
Relative Density:	About 0.845 at 20°C	
Flammability:	Flammable	
Auto-Ignition (°C):	>365	
Explosive Properties:	Moderate/severe in an enclosed space in the presence of a source of ignition	
Oxidising Properties:	None reported	
Viscosity (cSt):	No test data (mobile liquid)	

Vapour Density (air=1):	No test data
Decomposition Temperature (°C):	No test data
Dust Explosion Data:	Not applicable
Partition Coefficient: N-Octanol/ Water:	No test data for product. Capsaicin log Pow = 3.04 Ethanol log Pow = -0.32
Evaporation Rate:	No test data

10 STABILITY AND REACTIVITY

STABILITY

Stable.

CONDITIONS TO AVOID

Elevated storage temperatures and sources of ignition.

MATERIALS TO AVOID

Oxidising agents, concentrated nitric acid and sulphuric acid.

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition may produce acrid smoke, irritating fumes, carbon dioxide, carbon monoxide and capsaicin vapour.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Capsaicin:	Oral Rat (male) LD50 = 161.2mg/kg
	Oral Rat (female) LD50 = 148.1mg/kg
	Skin Mouse LD50 = >512mg/kg
Ethanol:	Oral LD50 (rat) 6200 – 1700mg/kg
	Inhalation LC (rat) >20000mg/litre/4h
	Dermal LD50 (rabbit) >20000mg/kg

EYE IRRITANT

May cause irritation.

SKIN IRRITANT

May cause irritation.

SKIN SENSITISATION

May cause sensitisation in some people.

SUB-ACUTE/SUBCHRONIC TOXICITY

Ethanol: Treatment related changes have been observed in laboratory animals after repeated oral administration. Adverse effects were seen in rats.

CHRONIC TOXICITY/CARCINOGENICITY

No test data.

GENOTOXICITY

No test data.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY

Ethanol: Adverse effects on the male reproductive system have been reported in laboratory animals following repeated exposure. Developmental effects have been observed in laboratory animals.

HUMAN DATA

In humans excessive consumption of alcoholic beverages during pregnancy is associated with the induction of Foetal Alcohol Syndrome in the offspring. Reduced birth weight and physical and mental defects occur. There is no evidence that such effects might be caused by exposures other than direct ingestion of alcoholic drinks.

ADDITIONAL DATA

Nil.

12 ECOLOGICAL INFORMATION

MOBILITY

Expected to be mobile in the environment.

PERSISTANCE/DEGRADABILITY

Readily biodegradable.

BIO-ACCUMULATION

No data available – not expected to bio-accumulate.

ECOTOXICITY

No data available.

13 DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL

Through licensed waste disposal contractor.

CONTAINER DISPOSAL

Wash out container, remove labels and send for recycling.

14 TRANSPORT INFORMATION

	NUMBER	PROPER SHIPPING NAME	CLASS	SUBSIDIARY RISK	PACK GROUP	
ADR INFO	1293	TINCTURES MEDICINAL	3	None	II	Transport Category 2 Tunnel Code D/E
IMDG INFO	1293	TINCTURES MEDICINAL	3	None	II	EmS F-E, S-D
IATA INFO	1293	TINCTURES MEDICINAL	3	None	II	Packing instructions: Y305 and 305 Passenger aircraft; 309 Cargo aircraft. ERG Code 3L.

15 REGULATORY INFORMATION

A chemical safety assessment has not been carried out for this preparation.

EC CLASSIFICATION

Health Not classified
 Physico Chemical Properties Highly Flammable
 Environmental Not classified

RISK PHRASES

R11 Highly Flammable

SAFETY PHRASES

S16 Keep away from sources of ignition – No smoking
 S25 Avoid contact with eyes
 S28 After contact with skin, wash immediately with plenty of soap and water
 S37 Wear suitable gloves

LEGISLATION

Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
EC Directive 1999/45/EC on the classification, packaging and labelling of dangerous preparations.
European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR).
Dangerous Substances and Explosive Atmosphere Regulations 2002.

16 OTHER INFORMATION

REFERENCES USED

1. Martindale 35th edition pages 28 (Capsaicin) and 2066 (Capsicum).
2. Micromedex Poisindex(R) Substance Identification (Capsaicin).
3. Herbal Medicines, A Guide for Healthcare Professionals by Carol A. Newall, Linda A. Anderson and J. David Phillipson 1996 edition, page 60 (Capsicum).
4. ESIS, European Chemical Substances Information system online.
5. Potter's New Cyclopaedia of Botanical Drugs and Preparations 1988 edition, page 66 (Cayenne).
6. National Library of Medicine Hazardous Substances Data Bank online.

Full list of R-Phrases used in Section 2:

- R25 – Toxic if swallowed
- R37/38 – Irritating to respiratory system and skin
- R41 – Risk of serious damage to eyes
- R42/43 – May cause sensitisation by inhalation and skin contact

DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.