

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006
CA/54 SDS Version 1 Revision Date 23/Jun/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: CAPSICUM TINCTURE (FG)
Product Code: CA/54
Index Number: N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Use as a pharmaceutical or food flavouring ingredient in manufacturing.

Uses advised against: None

1.3 Details of the supplier of the safety data sheet

Company: Ransom Naturals Limited
Address: 53 Bury Mead Road, Hitchin, Herts, SG5 1RT, United Kingdom.

Email contact: Quality@ransomnaturals.com
Telephone / Fax Number: 0044 (0)1462 437615 / 0044 (0)1462 477089

1.4 Emergency Telephone Number

Emergency Telephone Number: 0044 (0)1462 437615 (office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Flammable Liquid Category 2, H225
Eye Effects Category 2, H319

For the full text of H-Statements see Section 16

Primary Effects

Physicochemical: Highly flammable liquid and vapour.
Human Health: Causes serious eye irritation.
Environmental: None applicable.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Pictogram:



Signal Word: Danger

Hazard Statement(s): H225, H319

Precautionary Statement(s):

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

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P233 – Keep container tightly closed.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P337 + P313 – If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

This mixture is not classifiable as PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 based on an assessment of the constituent ingredients.

SECTION 3: Composition/information on ingredients

General compositional description

An extract of Capsicum containing approximately 56%v/v Ethanol (CAS No 64-17-5) and water.

Hazardous components according to Regulation (EC) No. 1272/2008

Component <i>Name and identifiers</i>	Classification	Concentration, %w/w
Ethanol Index No. 603-002-00-5	Flam. Liq. 2 – H225 Eye Irrit. 2 – H319	46 – 49.4
Capsaicin EC No. 206-969-8	Acute Tox. 3 – H301 Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Resp. Sens. 1 – H334 Skin Sens. 1 – H317 STOT-SE 3 – H335	Max. 0.085
Dihydrocapsaicin EC No. 606-308-7	Acute Tox. 3 – H301 Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 STOT-SE 3 – H335	Max. 0.045
N-Vanillylnonanamide (Nonivamide) EC No. 219-484-1	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317 STOT-SE 3 – H335	Max. 0.0065

For the full text of H-Statements see Section 16

Section 4: First Aid Measures

4.1 Description of first aid measures

General Advice

Extinguish sources of ignition in the area. Avoid contact with skin and eyes. If vapour is likely to be present wear a suitable organic vapour respirator or self-contained breathing apparatus.

If inhaled

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.

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In case of skin contact

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

In case of eye contact

Rinse eyes with water and remove contact lenses if possible. Irrigate eyes with water or eye wash solution for at least fifteen minutes. If discomfort persists seek medical assistance.

If swallowed

Wash mouth out thoroughly with water. Do not induce vomiting. If a significant quantity (>250ml) has been ingested seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Ingestion: Ethanol taken to excess will cause depression of the central nervous system, indicated by nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness. Aspiration during swallowing or vomiting will damage lungs.
Capsicum extracts may cause a severe burning sensation in contact with the skin and mucous membranes.

4.3 Indication of any immediate medical attention and special treatment needed

For ingestion treat as alcohol poisoning.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Burning may produce irritating fumes, carbon monoxide, carbon dioxide, and oxides of nitrogen.

5.3 Advice for firefighters

No specific information; use normal personal protective equipment including self-contained breathing apparatus.


5.4 Further information

None.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Extinguish sources of ignition, and ventilate area. For large scale spillages evacuate area.
Wear personal protective equipment as directed in Section 8.


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6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Use non-sparking tools. 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 for incineration. For large scale spillage use absorbent booms to contain the spillage. Wash contaminated area well with water and detergent.

6.4 Reference to other sections

For personal protective equipment required see Section 8; for disposal information see Section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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.

Avoid contact with skin and eyes. Use in a well-ventilated area. Avoid production of fumes or vapour; wear suitable respirators if fumes or vapour are produced. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Store in well closed containers away from direct sunlight, heat, and sources of ignition. Store at ambient temperature.

7.3 Specific end use(s)

No specific guidance relevant.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Components with Occupational Exposure Limits**

The following components have limits set in EH/40/2005 (Second Edition, 2011):

Ethanol, CAS 64-17-5, Long Term Exposure Limit (8hr TWA) 1000ppm, 1920mg/m³.

8.2 Exposure controls**Appropriate engineering controls**

Local exhaust ventilation.

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Individual protection measures, including personal protective equipment

Eye/face protection

Wear goggles or face-shield meeting the requirements of EN166.

Skin protection

Hand protection

Wear protective gloves. Nitrile rubber or PVC are suitable. Wash hands thoroughly with soap and water after use.

Other body protection

None required

Respiratory protection

Use an appropriate CEN approved organic vapour mask or self-contained breathing apparatus if vapour is likely to be present.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	A pale red-brown mobile liquid.
b)	Odour	Characteristic pungent odour.
c)	Odour threshold	No test data.
d)	pH	Typically 6
e)	Melting/freezing point	No test data.
f)	Initial boiling point and boiling range	78°C to 100°C
g)	Flash point	22°C (Closed cup)
h)	Evaporation rate	No test data.
i)	Flammability (solid,gas)	Not applicable.
j)	Upper/lower flammability or explosive limits	Ethanol: Lower Limit 3.5%v/v; Upper Limit 19.0%v/v
k)	Vapour pressure	No test data.
l)	Vapour density	No test data.
m)	Relative Density	Approx. 0.93 at 20°C
n)	Solubility in	Water
o)	Partition coefficient: n-octanol/water	Ethanol: Log Pow = -0.32
p)	Auto-ignition temperature	No test data.
q)	Decomposition temperature	No test data.
r)	Viscosity	No test data - Mobile liquid.
s)	Explosive properties	No test data.
t)	Oxidising properties	None applicable.

9.2 Other information

None applicable.

SECTION 10: Stability and reactivity

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10.1 Reactivity

No known specific reactivity hazards.

10.2 Chemical Stability

Stable under all expected conditions of storage and handling.

10.3 Possibility of hazardous reactions

None relevant.

10.4 Conditions to avoid

None applicable.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

None applicable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

Irritation

Based on the reported irritant potential for Capsicum extracts in humans, the mixture is classified as Eye Irritant, Category 2.

Corrosivity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

Sensitisation

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

Repeated dose toxicity


Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

Carcinogenicity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

Mutagenicity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.


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Toxicity for reproduction

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

Additional information

None applicable.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	No data available for product. No constituents are classified with respect to toxicity to fish.
Toxicity to Daphnia and other aquatic invertebrates	No data available for product. No constituents are classified with respect to toxicity to aquatic invertebrates.
Toxicity to algae	No data available for product. No constituents are classified with respect to toxicity to algae.

12.2 Persistence and degradability

Based on available data on the hazardous constituents identified in Section 3, the product is expected to readily biodegrade.

12.3 Bioaccumulative potential

Based on available data on the hazardous constituents identified in Section 3, the product is unlikely to bioaccumulate.

12.4 Mobility in soil

For the hazardous constituents identified in Section 3:
Ethanol is expected to have a very high mobility in soil.

12.5 Results of PBT and vPvB assessment

The mixture contains no constituents which are classified as PBT or vPvB.

12.6 Other adverse affects

No information.

SECTION 13: Disposal considerations

13.1 Waste treatment methods


Product

Dispose of product through a suitable licenced waste disposal contractor.

Contaminated packaging

Rinse containers and send for recycling.

SECTION 14: Transport Information


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Transport Mode	Road (ADR)	Sea (IMDG)	Air (IATA)
14.1 UN number	UN1293		
14.2 UN proper shipping name	TINCTURES, MEDICINAL		
14.3 Transport Hazard Class(es)	3		
14.4 Packing group	II		
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
Additional information	Transport Cat 2 Tunnel Code D/E Hazard Ident 33	EmS F-E, S-D	ERG Code: 3L

SECTION 15: Regulatory information

This safety data sheet has been compiled in accordance with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None applicable.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Changes made in this update to the safety data sheet

First Issue of the Safety Data Sheet in line with the requirements of Regulation (EC) No. 1907/2006. All sections have been updated.

References used in compilation of this safety data sheet

Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
 Regulation (EC) No. 1272/2008 on the Classification, labelling and packaging of substances and mixtures (CLP Regulation).
 European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) 2015 Edition
 International Maritime Dangerous Goods Code 2014 Edition
 IATA Dangerous Goods Regulations 56th Edition 2015
 Martindale, 35th edition, pages 1462 (Ethanol), 28 (Capsaicin), and 2066 (Capsicum).
 Sax's Dangerous Properties of Industrial Materials, eighth edition, page 1572 EFU000 (Ethyl Alcohol).
 Herbal Medicines, A Guide for Healthcare Professionals by Carol A. Newall, Linda A. Anderson and J. David Phillipson 1996 edition, page 60 (Capsicum).
 C&L Inventory online, ECHA Website.

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National Library of Medicine Hazardous Substances Data Bank online, entry for Ethanol, Capsaicin, Dihydrocapsaicin, Nonivamide, and Capsicum.

Methods of evaluation used for classification of this mixture under Article 9 of Regulation (EC) No. 1272/2008

This safety data sheet has been produced using expert judgement based on the classification of constituents of this product as allowed under Article 9.

Full text of H-statements referred to under other Sections

H225 – Highly flammable liquid and vapour

H319 – Causes serious eye irritation

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 – May cause an allergic skin reaction.

H301 – Toxic if swallowed.


H315 – Causes skin irritation.

H335 – May cause respiratory irritation.

Training recommended to be carried out prior to use of this material

All staff handling this material must be suitably trained in the safe use of chemicals in the relevant industry/workplace.

The information contained herein is, to the best of our knowledge, true and accurate. Any recommendations or suggestions are made without obligation on our part and the Company can accept no liability to any customer, their employees or any other person whatsoever for any loss, injury or damage whether direct or consequential, which may be caused by an error or omission from this sheet if negligent or otherwise.


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