



SAFETY DATA SHEET

LIQUORICE LIQUID EXTRACT

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME:	LIQUORICE LIQUID EXTRACT
PRODUCT NO:	RM143
APPLICATION/IDENTIFIED	Widely used in Food Industry
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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

Primary Hazards:	None	
Physicochemical Effects:	None	
Health Effects:	Eyes	May cause eye irritation due to ethanol content; may cause conjunctival irritation and corneal damage.
	Ingestion	May be harmful if swallowed. Ethanol taken in excess will cause central nervous system depression, indicated by nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness. Aspiration during swallowing or vomiting will damage lungs. Liquorice has mineralocorticoid like actions. Effects reported include hypokalaemia (presence of abnormally low levels of potassium in the blood), hypertension (high blood pressure), congestive heart failure, fatal cardiac arrest, muscle weakness, myoglobinuria (presence in the urine of the pigment myoglobin), paralysis, hyperprolactinaemia (excessive lactin in blood) and amenorrhoea (the absence of stopping of menstrual periods).
	Inhalation	May be harmful if vapour is inhaled due to ethanol content. Vapour concentrations in excess of the occupational exposure limit may cause irritation if the eyes, nose and throat. High concentrations will produce central nervous system depression, indicated by nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness.

Aspiration during swallowing or vomiting will damage lungs.
 Skin May cause skin sensitisation reactions.
 Environmental Effects: No test data

3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION: An aqueous extract from the root of *Glycyrrhiza glabra Linn*, containing 16-20% Ethanol (CAS No 64-17-5)

HAZARDOUS COMPONENTS			
Constituent	Typical	EC Number	Classification
Ethanol	18%v/v	200-578-6	F:R11
CAS NUMBER	Product not classified		

4 FIRST-AID MEASURES

EYES

Remove contact lenses if possible. Irrigate eye(s) with plenty of clean water or eye wash solution for at least 5 minutes. If discomfort persists seek medical advice.

INGESTION

Wash mouth out thoroughly with water. Do not induce vomiting, seek medical attention.

INHALATION

Remove to fresh air, keep warm and at rest. If there are any difficulties with breathing give oxygen, seek medical attention.

SKIN

Remove contaminated clothing. This should not be worn again until it has been laundered. Wash contaminated skin with soap and water.

ADVICE TO PHYSICIANS

Treat as alcohol/liquorice poisoning.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

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

UNSUITABLE EXTINGUISHING MEDIA

Do not use water jet.

SPECIAL HAZARDS

Burning will produce carbon monoxide and carbon dioxide.

PROTECTIVE EQUIPMENT

Self contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

Absorb spillage using a proprietary absorbent or sand, scoop up and place in a suitable container. Dispose of through licensed waste disposal contractor.

7 HANDLING AND STORAGE

HANDLING

Avoid contact with the eyes; 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 sources 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 PVC apron.

RESPIRATORY PROTECTION

An appropriately approved (e.g. CEN, NIOSH, etc.), organic vapour respirator is required if there is a risk of exposure to vapour concentrations 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:	Black – brown
Odour:	Aromatic
pH:	5.4 to 6.6 @ 20°C
Boiling Point °C:	>78.0
Flash Point °C:	39 (closed cup)
Explosion Limits:	Lower Limit 3.5% Upper Limit 19.0% alcohol/air mixture (Ethanol)
Solubility in Water:	Yes
Solubility in:	Ethanol
Vapour Pressure (hPa):	No test data
Relative Density:	1.125 to 1.140 @ 20°C
Flammability:	Does not support combustion under normal conditions of use. NOTE: Product has been tested in accordance with Schedule 2 of Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 and does not support combustion At 55°C
Auto-Ignition (°C):	>365
Explosive Properties:	May pose a risk if heated in an enclosed area due to ethanol content
Oxidising Properties:	None reported

Viscosity (cSt):	No test data – thick 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:	Ethanol: log Pow = -0.32
Evaporation Rate:	No test data

10 STABILITY AND REACTIVITY

STABILITY

Stable.

CONDITIONS TO AVOID

Elevated storage temperatures.

MATERIALS TO AVOID

Oxidising agents, concentrated nitric acid and sulphuric acid.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide and monoxide.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Ethanol: LD50 Rat Oral 7060mg/kg.

EYE IRRITANT

May cause slight irritation due to ethanol content.

SKIN IRRITANT

No.

SKIN SENSITISATION

Prolonged contact may cause sensitisation in some people.

SUB-ACUTE/SUBCHRONIC TOXICITY

No data available.

CHRONIC TOXICITY/CARCINOGENITY

No data available.

GENOTOXICITY

No data available.

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 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 bio-degradable.

BIO-ACCUMULATION

No data available.

ECOTOXICITY

No data available.

13 DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL

Through licensed waste disposal contractor.

CONTAINER DISPOSAL

Wash out container thoroughly, remove labels and send for recycling.

14 TRANSPORT INFORMATION

Not classified as hazardous for all modes of transportation.

15 REGULATORY INFORMATION

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

EC CLASSIFICATION

Health	Not classified
Physico Chemical Properties	Not classified
Environmental	Not classified

RISK PHRASES

None.

SAFETY PHRASES

None.

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), 2013 Edition.

International Maritime Dangerous Goods Code, 2012 Edition.

IATA Dangerous Goods Regulations, 54th Edition.

Dangerous Substances and Explosive Atmosphere Regulations 2002.

16 OTHER INFORMATION

REFERENCES USED

1. Martindale, 35th edition, pages 1462 (Ethanol) and 1569 (Liquorice).
2. Sax's Dangerous Properties of Industrial Materials Eighth Edition page 1572 EFU000 (Ethyl Alcohol).
3. Herbal Medicines, A guide for healthcare professionals, 2nd Edition, Barnes, Anderson & Phillipson, page 325 (Liquorice)

Full list of R-Phrases used in Section 2: F11 – Highly flammable

DISCLAIMER

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