



Specification

Product Name: Elderflower Flavour Drop

Product Code: SPEC0096

Description:

Food Flavouring Drops are premium quality water soluble intense flavours which provide an exceptionally efficient method of adding flavour. They are a highly concentrated, versatile, multi-use product for both food and liquid. They should be used sparingly; 1-2 ml is ample to flavour 1 litre of base liquid. Each 30ml bottle contains approximately 800 drops. Food Flavouring Drops disperse well in most foods and drinks. They are ideal for flavouring cakes, icings, fondants, ice cream, sorbets, cupcakes, pastry, salads, sauces, frostings, ganache, desserts, cocktails, drinks, cream, wine, beer, spirits, sweets and more. They can also be used to enhance the flavour of a dish, without changing the texture of the original product.

Odour & Flavour:

Odour typical of elderflower with slightly bitter taste.

Ingredients:

Produced from the alcohol/water extraction of Natural Elderflowers.

Dietary Information:

Suitable for Vegans, Ovo-lacto Vegetarians & Vegetarians, Non-GMO, Gluten Free, Allergen Free, Non-Irradiated, No Added Sugar.

Nutritional Information:

Energy: 1046kj/250kcal (Based on 100g).

Storage:

Dark, dry and cool conditions, not in direct sunlight.

Packaging:

30ml	5060341112652
500ml	5056191010958
1 Litre	5056191006579
5 Litre	5056191006586

Country of Origin:

United Kingdom.

Shelf Life:

24 months if stored as above and unopened.

Density (g/ml) at 20°C:

0.983 – 1.003



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Tel: 01246 906247 | Foxwood Industrial Park, Chesterfield, S41 9RN, United Kingdom
Registered UK Company No: 08758412 | UK VAT No: GB175274393

**Refractive Index at 20°C:**

1.340 – 1.360

Flashpoint °C (closed cup):

>35

Ethanol Content %:

27 - 33

Labelling according to Regulation (EC) No. 1334/2008:

Flavouring

Hazards:

Flammable. See the MSDS for further information

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N
Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N

Material Safety Data Sheet

1: Identification of the substance/mixture and of the company/undertaking:**1.1 – Product identifier**

Product form: Mixture,

Product name: Elderflower Flavour Drop.

1.2 – Relevant identified uses of the substance or mixture and uses advised against:**1.2.1: Relevant identified uses:** use of the substance/mixture: Food and/or beverage flavouring.**1.2.2: Uses advised against:** Restrictions on use: Not for direct consumption.

1.3 – Details of the supplier of the safety data sheet:

Company:

Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN.

Tel: 0044 (0)1246 906247

1.4 - Emergency Telephone Contact: 07387 330318. <https://specialingredients.co.uk/pages/contact>**2: Hazards Identification:****2.1 – Classification of the substance or mixture:**

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

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects: Flammable liquid and vapour.

2.2 – Label elements:**Labelling according to Regulation (EC) no. 1272/2008 [CLP]**

Hazard pictograms (CLP):



GHS02

Signal word (CLP): Warning

Hazard Statements:

- H226 - Flammable liquid and vapour

Precautionary statements (CLP)

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
- P233 - Keep container tightly closed.
- P240 - Ground and bond container and receiving equipment.
- P241 - Use explosion-proof ventilating equipment.
- P280 - Wear protective clothing, eye protection, face protection.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water or shower.

2.3 – Other hazards:Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

Component	
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59 (1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or



Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

3: Composition/Information on Ingredients:

3.1 – Substances:

Not applicable.

3.2 – Mixtures:

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

4: First Aid Measures:

4.1 – Description of First Aid Measures:

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

4.2 – Most important symptoms and effect, both acute and delayed:

No additional information available

4.3 – Indication of any immediate medical attention and special treatment needed:

Treat Symptomatically.

5: Firefighting Measures:

5.1 - Extinguishing media:

Suitable extinguishing media: Water spray, Dry powder, Foam, Carbon dioxide.

5.2 – Special hazards arising from the substance or mixture:

Fire hazard: Flammable liquid and vapour.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 – Advice for firefighters:

Protection during firefighting: Do not attempt to take action without suitable protective equipment, Self-contained breathing apparatus, Complete protective clothing.

6: Accidental Release Measures:

6.1.1 – For non-emergency personnel:

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking.

6.1.2 – For emergency responders:

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 – Environmental Precautions:

Avoid release to the environment.

**6.3 – Methods and material for containment and cleaning up:**

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4 – Reference to other sections:

For further information refer to section 13.

7: Handling and Storage:**7.1 – Precautions for safe handling:**

Precautions for safe handling: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 – Conditions for safe storage, including any incompatibilities:

Technical measures: Ground/bond container and receiving equipment.

Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3 – Specific end use(s):

No additional information available.

8: Exposure Controls/ Personal Protection:**8.1 – Control parameters:****8.1.1 National occupational exposure and biological limit values**

Ethanol (64-17-5)	
Belgium – Occupational Exposure Limits	
OEL TWA	1907 mg/m ³
	1000 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	1900 mg/m ³
	1000 ppm
VLE (OEL C/STEL)	9500 mg/m ³
	5000 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	260 mg/m ³
	136 ppm

TGG-15min (OEL STEL)	1900 mg/m ³
	992 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA)	1920 mg/m ³
	1000 ppm
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL	1000 ppm

8.1.2 Recommended monitoring procedures

No additional information available.

8.1.3 Air contaminants formed

No additional information available.

8.1.4 DNEL and PNEC

No additional information available.

8.1.5 Control banding

No additional information available.

8.2 – Exposure controls:**8.2.1 Appropriate engineering controls**

Ensure good ventilation of the work station.

8.2.2 Person protective equipment

Wear recommended personal protective equipment

Personal protective equipment symbol(s)

**8.2.2.1 Eye and face protection**

Eye protection			
Safety Glasses			
Type	Field of application	Characteristics	Standard
Safety Goggles	Droplet, Dust	Clear, Plastic	EN 166 1B3

8.2.2.2 Skin protection

Skin and body protection	
Type	Standard



Lab Coat	ASTM F903
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Hand Protection					
Protective gloves against chemicals (EN 374)					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	0.20-0.30	2 (< 1.5)	EN 420, EN 16523-1, EN ISO 374-1, EN 374-2, EN 374-4, EN 374-5

8.2.2.3 Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory Protection			
Device	Filter type	Condition	Standard
Powered Air-purifying Respirator (PAPR)	Filter AX (brown), Filter P (white), Type A – High Boiling (>65 °C) organic compounds	Protection for liquid particles, Protection for solid particles, Short term exposure	EN 12941

8.2.2.4 Thermal hazards

No additional information available.

8.2.3 Environmental exposure controls

Environmental exposure controls: avoid release to the environment.

9: Physical and Chemical Properties:

9.1 – Information on basic physical and chemical properties:

Physical state: Liquid

Colour: Brown.

Odour: Characteristic. Conforms to Standard.

Odour threshold: Not available

Melting point: Not applicable

Freezing point: Not available

Boiling point: Not available

Flammability: Not applicable

Explosive limits: Not available

Lower explosion limit: Not available

Upper explosion limit: Not available

Flash point: > 40 °C

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not available

Viscosity, kinematic: Not available

Solubility: Not available

Partition coefficient n-octanol/water (Log Kow): Not available

Vapour pressure : Not available

Vapour pressure at 50°C : Not available

Density : 1 (0.98 – 1.02) g/ml at 20°C

Relative density : Not available

Relative vapour density at 20°C : Not available

Particle characteristics : Not applicable



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**9.2 – Other information:****9.2.1 Information with regard to physical hazard classes**

No additional information available.

9.2.2 Other safety characteristics

Refractive index: 1.335 – 1.355

10: Stability and Reactivity:**10.1 – Reactivity:**

Flammable liquid and vapour.

10.2 – Chemical Stability:

Stable under normal conditions.

10.3 - Possibility of hazardous reactions:

No dangerous reactions known under normal conditions of use.

10.4 – Conditions to avoid:

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5 – Incompatible materials:

No additional information available.

10.6 – Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11: Toxicological Information:**11.1 – Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit, Literature study, Dermal)
LC50 Inhalation - Rat	117 – 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation)
ATE CLP (oral)	10740 mg/kg bodyweight

Skin corrosion/irritation: Not classified

Ethanol (64-17-5)	
pH	7 (789 g/l, 20 °C)

Serious eye damage/irritation: Not classified

Ethanol (64-17-5)	
pH	7 (789 g/l, 20 °C)
Respiratory or skin sensitisation: Not classified	
Germ cell mutagenicity: Not classified	
Carcinogenicity: Not classified	
Reproductive toxicity: Not classified	
STOT-single exposure: Not classified	
STOT-repeated exposure: Not classified	
Aspiration hazard: Not classified	
Ethanol (64-17-5)	
Viscosity, kinematic	1.082 mm ² /s (40 °C)

11.2 – Information on other hazards

11.2.1 Endocrine disrupting properties

No additional information available.

11.2.2 Other information

Other information: Special Ingredients Ltd do not test on animals, this is historical information.

12: Ecological Information:

12.1 – Toxicity:

Ecology – General: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, Long-term (Chronic): Not classified

Ethanol (64-17-5)	
LC50 - Fish [1]	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 72h - Algae [1]	275 mg/l (Equivalent or similar to OECD 201, Chlorella vulgaris, Static system, Fresh water, Experimental value, Growth rate)

12.2 – Persistence and Degradability:

Ethanol (64-17-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.8 – 0.967 g O /g substance
Chemical oxygen demand (COD)	1.7 g O /g substance
ThOD	2.1 g O /g substance
BOD (% of ThOD)	0.43

12.3 - Bioaccumulative Potential:

Ethanol (64-17-5)



BCF - Fish [1]	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
Partition coefficient n-octanol/water (Log Pow)	-0.31 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

12.4 - Mobility in soil:

Ethanol (64-17-5)	
Surface tension	0.022 N/m (20 °C)
Ecology - soil	Highly mobile in soil.

12.5 - Results of PBT and vPvB assessment:

Component	
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 – Endocrine disrupting properties:

No additional information available.

12.7 – Other adverse effects

No additional information available.

13: Disposal Considerations:**13.1 – Waste treatment methods:**

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information: Flammable vapours may accumulate in the container.

14: Transport Information:

In accordance with ADR/IMDG/IATA/ADN/RID.

14.1 UN number

UN-NO. (ADR): Not applicable

UN-NO. (IMDG): Not applicable

UN-NO. (IATA): Not applicable

UN-NO. (ADN): Not applicable

UN-NO. (RID): Not applicable

14.2 UN proper shipping name

Proper Shipping Name (ADR): FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol)

Proper Shipping Name (IMDG): FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol)

Proper Shipping Name (IATA): Flammable liquid, n.o.s. (ethanol; ethyl alcohol)

Proper Shipping Name (ADN): FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol)



Proper Shipping Name (RID): FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol)

Transport document description (ADR): UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol), 3, III, (D/E)

Transport document description (IMDG): UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol), 3, III

Transport document description (IATA): UN 1993 Flammable liquid, n.o.s. (ethanol; ethyl alcohol), 3, III

Transport document description (ADN): UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol), 3, III

Transport document description (RID): UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol), 3, III

14.3 Transport hazard classes

ADR

Transport hazard class(es) (ADR) : 3

Danger labels (ADR) : 3

:



IMDG

Transport hazard class(es) (IMDG) : 9

Danger labels (IMDG) : 9

:



IATA

Transport hazard class(es) (IATA) : 3

Danger labels (IATA) : 3

:



ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3

:

**RID**

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3

:

**14.4 Packing group**

Packing group (ADR): III

Packing group (IMDG): III

Packing group (IATA): III

Packing group (ADN): III

Packing group (RID): III

14.5 Environmental hazards

Dangerous for the environment: Yes

Marine pollutant: Yes

Other information: No supplementary information available

14.6 – Special precautions for user:**Overland transport**

Classification code (ADR): F1

Special provisions (ADR): 274, 601

Limited quantities (ADR): 5I

Excepted quantities (ADR): E1

Packing instructions (ADR): P001, IBC03, LP01, R001

Mixed packing provisions (ADR): MP19

Portable tank and bulk container instructions (ADR): T4

Portable tank and bulk container special provisions (ADR): TP1, TP29

Tank code (ADR): LGBF

Vehicle for tank carriage: FL

Transport category (ADR): 3

Special provisions for carriage - Packages (ADR): V12

Special provisions for carriage - Operation (ADR): S2

Hazard identification number (Kemler No.): 30

Orange plates :



30

1993

Tunnel restriction code (ADR) : D/E

EAC code : •3YE

Transport by sea

Special provisions (IMDG): 223, 274, 955

Limited quantities (IMDG): 5 L

Excepted quantities (IMDG): E1

Packing instructions (IMDG): LP01, P001

IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG): T4

Tank special provisions (IMDG): TP1, TP29

EmS-No. (Fire): F-E

EmS-No. (Spillage): S-E

Stowage category (IMDG): A

Air transport

PCA Excepted quantities (IATA): E1

PCA Limited quantities (IATA): Y344

PCA limited quantity max net quantity (IATA): 10L

PCA packing instructions (IATA): 355

PCA max net quantity (IATA): 60L

CAO packing instructions (IATA): 366

CAO max net quantity (IATA): 220L

Special provisions (IATA): A3

ERG code (IATA): 3L

Inland waterway transport

Classification code (ADN): F1

Special provisions (ADN): 274, 601

Limited quantities (AND): 5 L

Excepted quantities (ADN): E1

Equipment required (ADN): PP, EX, A

Ventilation (ADN): VE01

Number of blue cones/lights (ADN): 0

Rail transport

Classification code (RID): F1

Special provisions (RID): 274, 601

Limited quantities (RID): 5L

Excepted quantities (RID): E1

Packing instructions (RID): P001, IBC03, LP01, R001

Mixed packing provisions (RID): MP19

Portable tank and bulk container instructions (RID): T4

Portable tank and bulk container special provisions (RID): TP1, TP29

Tank codes for RID tanks (RID): LGBF

Transport category (RID): 3

Special provisions for carriage – Packages (RID): W12



Colis express (express parcels) (RID): CE4

Hazard identification number (RID): 30

14.7 – Maritime transport in bulk according to IMO instruments

Not applicable.

15: Regulatory Information:

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

15.1.1 – EU regulations:

REACH Annex XVII (Restriction List): Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List): Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC): Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent): Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants): Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009): Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148): Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004): Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 – National Regulations:

Germany

Water hazard class (WGK): Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen: Buchu Leaf Oil is listed

SZW-lijst van mutagene stoffen: Buchu Leaf Oil is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding: None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid: None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling: None of the components are listed

Denmark

Classification remarks: Emergency management guideline for the storage of flammable liquids must be followed

Danish National Regulations: Young people below the age of 18 years are not allowed to use the product

15.2 – Chemical safety assessment:

No chemical safety assessment has been carried out.

**16: Other Information:**

Abbreviations and acronyms	
ADN	European Agreement concerning the international carriage of dangerous goods by inland waterways
ADR	European Agreement concerning the international carriage of dangerous goods by road
ATE	Acute toxicity Estimate
BCF	Bio-concentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived minimal effect level
DNEL	Derived-no effect level
EC-No.	European community number
EC50	Median effective concentration
EN	European standard
IARC	International Agency for research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bio accumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the international Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bio accumulative
ED	Endocrine disrupting properties

Full Text of H- and EUH-statements:	
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.

The information contained herein is to the best of our knowledge, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.