



Specification

Product Name: Peardrop Flavour Drop

Product Code: SPEC0122

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:

Characteristic. Conforms to standard.

Ingredients:

Flavouring substances.

Dietary Information:

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

Nutritional Information:

Energy: 1673.6kj/400kcal (Based on 100g)

Storage:

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

Packaging:

30ml	5060341110153
500ml	5056191010705
1 Litre	5056191005855
5 Litre	5056191005862

Country of Origin:

United Kingdom.

Shelf Life:

24 months if stored as above and unopened.

Density (g/ml) at 20°C:

0.865 – 0.885



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**Refractive Index at 20°C:**

1.390 – 1.410

Flashpoint °C (closed cup):

<25

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

Flavouring

Hazards:

Flammable. Please see MSDS.

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: Peardrop Flavour Drop.

1.2 – Relevant identified uses of the substance or mixture and uses advised against:**1.2.1: Relevant identified uses:** Food and/or beverage Flavouring**1.2.2: Uses advised against:** 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>www.specialingredients.co.ukTel: 01246 906247 | Foxwood Industrial Park, Chesterfield, S41 9RN, United Kingdom
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2: Hazards Identification:**2.1 – Classification of the substance or mixture:**

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

- Flammable liquids, Category 3: H226

Full text of H- and EUH- statements: See section 16.

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

2.2 – Label elements:

Hazard Pictograms (CLP):



GHS02

Signal word (CLP): Warning

Hazardous ingredients: Ginger oil

Hazard Statements (CLP):

- 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	
isopentyl acetate (123-92-2)	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:**

Name	Product identifier	%	Classification according to Regulation (EC) no.1272/2008 (CLP)
isopentyl acetate substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2	100	Flam. Liq. 3, H226

Full Text of H- and EUH statements: see section 16.

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: Highly 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 – Personal precautions, protective equipment and emergency procedures:****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**

isopentyl acetate (123-92-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	270 mg/m ³
	50 ppm
IOEL STEL	540 mg/m ³
	100 ppm
Belgium – Occupational Exposure Limits	
OEL TWA	270 mg/m ³
	50 ppm
OEL STEL	540 mg/m ³
	100 ppm
France – Occupational Exposure Limits	
VME (OEL TWA)	270 mg/m ³

	50 ppm
VLE (OEL C/STEL)	540 mg/m ³
	100 ppm
Netherlands – Occupational Exposure Limits	
TGG-15min (OEL STEL)	530 mg/m ³
	98 ppm
United Kingdom – Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	270 mg/m ³
	50 ppm
WEL TWA (OEL TWA) [2]	541 mg/m ³
	100 ppm
USA – ACGIH – Occupational Exposure Limits	
ACGIH OEL TWA	50 ppm
ACGIH OEL STEL	100 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**www.specialingredients.co.uk

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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

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: Clear or Slightly Tinged.

Appearance: Mobile liquid.

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: > 25 °C

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not available



Viscosity, kinematic: Not available
Solubility: Soluble in water. Soluble in ethanol.
Partition coefficient n-octanol/water (Log Kow): Not available
Vapour pressure: Not available
Vapour pressure at 50°C: Not available
Density: 0.875 (0.865 – 0.885) g/ml at 20°C
Relative density: Not available
Relative vapour density at 20°C: Not available
Particle characteristics: Not applicable

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: 1.39 – 1.41

Other properties: 100% Passes through 560 micron filter

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

isopentyl acetate (123-92-2)	
LD50 oral	7400 mg/kg bodyweight (Rabbit, Experimental value, Oral)
LD50 dermal rat	> 5000 mg/kg (Rabbit, Experimental value, Dermal)



ATE CLP (oral)	7400 mg/kg bodyweight
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Skin corrosion/irritation: Not classified
 Serious eye damage/irritation: Not classified
 Respiratory or skin sensitisation: May cause allergic skin reaction.
 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

isopentyl acetate (123-92-2)	
Viscosity, kinematic	1.006 mm ² /s

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

isopentyl acetate (123-92-2)	
LC50 – Fish [1]	22 – 46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	42 mg/l (DIN 38412-11, 48 h, Daphnia magna, Fresh water, Experimental value)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 48 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

12.2 – Persistence and Degradability:

isopentyl acetate (123-92-2)	
Persistence and degradability	Readily biodegradable in water.

12.3 - Bioaccumulative Potential:

Ethanol (64-17-5)	
BCF - Fish [1]	28.1 l/kg (BCFBAF v3.01, Calculated value, Fresh weight)

Partition coefficient n-octanol/water (Log Pow)	2.7 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 35 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4 - Mobility in soil:

isopentyl acetate (123-92-2)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.454 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology – soil	Highly mobile in soil

12.5 - Results of PBT and vPvB assessment:

Component	
isopentyl acetate (123-92-2)	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): UN 1993

UN-NO. (IMDG): UN 1993

UN-NO. (IATA): UN 1993

UN-NO. (ADN): UN 1993

UN-NO. (RID): UN 1993

14.2 UN proper shipping name

Proper Shipping Name (ADR): FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (IMDG): FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (IATA): Flammable liquid, n.o.s.

Proper Shipping Name (ADN): FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (RID): FLAMMABLE LIQUID, N.O.S.



Transport document description (ADR): UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II, (D/E)

Transport document description (IMDG): UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II

Transport document description (IATA): UN 1993 Flammable liquid, n.o.s., 3, II

Transport document description (ADN): UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II

Transport document description (RID): UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II

14.3 Transport hazard classes

ADR

Transport hazard class(es) (ADR) : 3

Danger labels (ADR) : 3

:



IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3

:



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): II

Packing group (IMDG): II

Packing group (IATA): II

Packing group (ADN): II

Packing group (RID): II

14.5 Environmental hazards

Dangerous for the environment: No

Marine pollutant: No

Other information: No supplementary information available

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

Classification code (ADR): F1

Special provisions (ADR): 274, 601, 640D

Limited quantities (ADR): 1I

Excepted quantities (ADR): E2

Packing instructions (ADR): P001, IBC02, R001

Mixed packing provisions (ADR): MP19

Portable tank and bulk container instructions (ADR): T7

Portable tank and bulk container special provisions (ADR): TP1, TP8, TP28

Tank code (ADR): LGBF

Vehicle for tank carriage: FL

Transport category (ADR): 2

Special provisions for carriage - Operation (ADR): S2, S20

Hazard identification number (Kemler No.): 33 Orange plates:

30

1993

Tunnel restriction code (ADR) : D/E

EAC code : •3YE

Transport by sea

Special provisions (IMDG): 274

Limited quantities (IMDG): 1 L

Excepted quantities (IMDG): E2

Packing instructions (IMDG): P001

IBC packing instructions (IMDG): IBC02



Tank instructions (IMDG): T7
Tank special provisions (IMDG): TP1, TP28, TP8
EmS-No. (Fire): F-E
EmS-No. (Spillage): S-E
Stowage category (IMDG): B

Air transport

PCA Excepted quantities (IATA): E2
PCA Limited quantities (IATA): Y341
PCA limited quantity max net quantity (IATA): 1L
PCA packing instructions (IATA): 353
PCA max net quantity (IATA): 5L
CAO packing instructions (IATA): 364
CAO max net quantity (IATA): 60L
Special provisions (IATA): A3
ERG code (IATA): 3H

Inland waterway transport

Classification code (ADN): F1
Special provisions (ADN): 274, 601, 640D
Limited quantities (ADN): 1 L
Excepted quantities (ADN): E2
Carriage permitted (ADN): T
Equipment required (ADN): PP, EX, A
Ventilation (ADN): VE01
Number of blue cones/lights (ADN): 1

Rail transport

Classification code (RID): F1
Special provisions (RID): 274, 601, 640D
Limited quantities (RID): 1L
Excepted quantities (RID): E2
Packing instructions (RID): P001, IBC02, R001
Mixed packing provisions (RID): MP19
Portable tank and bulk container instructions (RID): T7
Portable tank and bulk container special provisions (RID): TP1, TP8, TP28
Tank codes for RID tanks (RID): LGBF
Transport category (RID): 2
Colis express (express parcels) (RID): CE7
Hazard identification number (RID): 33

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: None of the components are listed

SZW-lijst van mutagene stoffen: None of the components are 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

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.