



Specification

Product Name: Mango Flavour Drop

Product Code: SPEC0115

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 preparations, Flavouring substances, Triacetin (E1518).

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	5060341112669
500ml	5056191010941
1 Litre	5056191006548
5 Litre	5056191006555

Country of Origin:

United Kingdom.

Shelf Life:

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24 months if stored as above and unopened.

Density (g/ml) at 20°C:

1.090 – 1.110

Refractive Index at 20°C:

1.420 – 1.440

Flashpoint °C (closed cup):

<56

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

Flavouring

Hazards:

Flammable. Please read 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: Mango 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):

Flammable liquids, Category 3: H226,

Skin sensitisation, Category 1: H317

Hazardous to the aquatic environment – Chronic Hazard, Category 3: H412

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

Adverse psychochemical, human health and environmental effects: Highly flammable liquid and vapour. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2 – Label elements:

Labelling according to Regulation (EC) no. 1272/2008 [CLP],

Hazard Pictograms (CLP):



GHS02

GHS07

Signal word (CLP): Warning

Hazardous ingredients: Lemon Oil, Pine needle, dwarf, oil

Hazard Statements (CLP):

- H226 – Flammable liquid and vapour.
- H317 – May cause an allergic skin reaction
- H412 – Harmful to aquatic life with long lasting effects

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 electrical/ ventilating, lighting equipment.
- P261 – Avoid breathing dust / fume / gas / mist / vapours / spray.
- P272 – Contaminated work clothing should not be allowed out of the workplace.

2.3 – Other hazards:

No additional information available.

3: Composition/Information on Ingredients:**3.1 – Substances:**

Not applicable.

3.2 – Mixtures:

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Name	Product identifier	%	Classification according to Regulation (EC) no.1272/2008 [CLP]
2-methyl butric acid	(CAS-No.) 116-53-0 (EC-No.) 204-145-2	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
Ethyl acetate Substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607- 022-00-5	1 – 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Lemon Oil	(CAS-No.) 84929-31-7 (EC-No.) 284-515-8	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Pine needle, dwarf, oil	(CAS-No.) 90082-73-8; 900082-72-7 (EC-No.) 290-164-1; 290-163-6	< 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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: Wash skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First Aid Measures after eye contact: Rinse eyes with water as a precaution.
First Aid Measures after ingestion: Call a poison centre or a doctor if you feel unwell.

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

Symptoms/effects after skin contact: May cause an allergic skin reaction.

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 – 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. Avoid contact with skin and eyes. Avoid breathing dust / fumes / gas / mist / vapours / spray.

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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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:**

Ethyl acetate (141-78-6)	
United Kingdom – Occupational Exposure Limits	
Local name	Ethyl acetate

WEL TWA (OEL TWA) [1]	734 mg/m ³
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
WEL STEL (OEL STEL) [ppm]	400 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2 – Exposure controls:

Appropriate engineering controls

Ensure good ventilation of the work station.

Person protective equipment

Personal protective equipment symbol(s)



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

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

Respiratory Protection			
In case of insufficient ventilation, wear suitable respiratory equipment			
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

Environmental exposure controls

Ensure good ventilation of the work station.



9: Physical and Chemical Properties:

9.1 – Information on basic physical and chemical properties:

Physical state: Liquid

Colour: Pale Yellow

Odour: Characteristic. Conforms to standard.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: Not applicable

Freezing point: No data available

Boiling point: No data available

Flash point: > 56°C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): Not applicable

Vapour pressure: No data available

Vapour pressure at 20°C: No data available

Relative density: No data available

Density: 1.1 (1.09 – 1.11)g/ml at 20°C

Solubility: No data available

Partition coefficient n-octanol/water (Log Know): No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidising properties: No data available

Explosive limits: No data available

9.2 – Other information:

Refractive index: 1.42 – 1.44

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

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

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

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

12: Ecological Information:**12.1 – Toxicity:**

Ecology – General: Harmful to aquatic life with long lasting effects.

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

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

12.2 – Persistence and Degradability:

2-methyl butyric acid (116-53-0)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.

Ethyl acetate (141-78-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.293 g O ₂ /g substance
Chemical oxygen demand (COD)	1.69 g O ₂ /g substance
ThOD	1.82 g O ₂ /g substance

12.3 – Bioaccumulative Potential:

No additional information available.

12.4 – Mobility in soil:

2-methyl butyric acid (116-53-0)	
Ecology – soil	No (test) data on mobility of the substance available.

Ethyl acetate (141-78-6)	
Surface tension	0.024 N/m (20°C)
Ecology – soil	Low potential for adsorption in soil.

**12.5 - Results of PBT and vPvB assessment:**

Component	
Ethyl acetate (141-78-6)	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 – 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 collectors sorting instructions.

Additional Information: Flammable vapours may accumulate in the container.

14: Transport Information:

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

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2 UN proper shipping name				
FLAMMABLE LIQUID, N.O.S (Hexyl acetate ; cis-3-Hexen-1-yl acetate)	FLAMMABLE LIQUID, N.O.S (Hexyl acetate ; cis-3-Hexen-1-yl acetate)	Flammable liquid, n.o.s (Hexyl acetate ; cis-3-Hexen-1-yl acetate)	FLAMMABLE LIQUID, N.O.S (Hexyl acetate ; cis-3-Hexen-1-yl acetate)	FLAMMABLE LIQUID, N.O.S (Hexyl acetate ; cis-3-Hexen-1-yl acetate)
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (Hexyl acetate ; cis-3-Hexen-1-yl acetate), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (Hexyl acetate ; cis-3-Hexen-1-yl acetate), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, n.o.s. (Hexyl acetate ; cis-3-Hexen-1-yl acetate), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (Hexyl acetate ; cis-3-Hexen-1-yl acetate), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (Hexyl acetate ; cis-3-Hexen-1-yl acetate), 3, III, (D/E)
14.3 Transport hazard classes				
3	3	3	3	3
14.4 Packing group				
III	III	III	III	III
14.5 Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No Supplementary information available				

**14.6 – Special precautions for user:**

Classification code (ADR): F1

Special provisions (ADR): 274, 601

Limited quantities: 5l

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

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 (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: 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 (ADN): 5L

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

Colis express (express parcels) (RID): CE4

Hazard identification number (RID): 30

14.7 – Transport in bulk according to Annex II of Marpol and the IBC Code:

Not applicable.

15: Regulatory Information:

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

15.1.1 – EU regulations:

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no Reach Annex XIV substances.

Contains no substance subject the Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

15.1.2 – National Regulations:

No additional information available.

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

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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:		
Acute Tox. 4 (Dermal)	4	Acute toxicity (dermal.), Cat 4
Acute Tox. 4 (Oral)		Acute toxicity (oral), Cat 4
Aquatic Acute 1		Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1		Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2		Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3		Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2		Serious eye damage / eye irritation, Category 2
Flam. Liq. 2		Flammable liquids, Category 2
Flam. Liq. 3		Flammable liquids, Category 3
H225		Highly flammable liquid and vapour
H226		Flammable liquid and vapour
H302		Harmful if swallowed
H312		Harmful if in contact with skin
H315		Causes skin irritation
H317		May cause an allergic skin reaction
H319		Cause serious eye irritation
H336		May cause drowsiness or dizziness
H400		Very toxic to aquatic life
H410		Very toxic to aquatic life with long lasting effects



H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Skin Irrit. 2	Skin corrosion / irritation, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE3	Specific target organ toxicity – Single exposure, Category 3, Narcosis.

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.