



Specification

Product Name: Bubblegum Flavour Drop

Product Code: SPEC0082

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, Flavouring Preparations, Propylene Glycol (E1520), Ethyl alcohol

Dietary Information:

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

Nutritional Information:

Energy: 2050.1kj/490kcal (Based on 100g).

Storage:

Store in cool, dry conditions not in direct sunlight.

Packaging:

30ml	5060341110856
500ml	5056191010583
1 Litre	5056191005497
5 Litre	5056191005503

Country of Origin:

United Kingdom.

**Shelf Life:**

24 months if stored as above and unopened.

Density (g/ml) at 20°C:

0.930 – 0.950

Refractive Index at 20°C:

1.400 – 1.420

Flashpoint °C (closed cup):

<20

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

Flavouring

Hazards:

Highly flammable

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: Bubblegum 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.www.specialingredients.co.uk

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

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, Orange Oil Terpenes

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 ventilating equipment.
- P261 – Avoid breathing vapours.
- P272 – Contaminated work clothing should not be allowed out of the workplace.

2.3 – Other hazards:

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

Component	
Propylene glycol (57-55-6)	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
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

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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
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.: 12392-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2	5 - 10	Flam. Liq. 3 H226
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
Ethyl acetate 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
Orange Oil Terpenes	CAS-No.: 68647-72-3 EC-No.: 232-433-8	< 1	Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317

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. If skin irritation or rash occurs: Get medical 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.

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**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 vapours/dust.

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 vapours / dust.

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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 cool, dry conditions in the original unopened containers, between 5-20°C. Reseal container tightly once opened.

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

Propylene glycol (57-55-6)	
United Kingdom – Occupational Exposure Limits	
Local name	Propate-1,2-diol
WEL TWA (OEL TWA) [1]	474 mg/m ³ 10 mg/m ³
WEL TWA (OEL TWA) [2]	150 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

ethyl acetate (141-78-6)	
EU – Indicative Occupational Exposure Limits (IOEL)	
IOEL TWA	734 mg/m ³
IOEL TWA [ppm]	200 ppm
IOEL STEL [ppm]	400 mg/m ³
Belgium – Occupational Exposure Limits	
OEL TWA	1461 mg/m ³
OEL TWA [ppm]	400 ppm
France – Occupational Exposure Limits	
VME (OEL TWA)	1400 mg/m ³
VME (OEL TWA) [ppm]	400 ppm
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
USA – ACGIH – Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	400 ppm

Ethanol (64-17-5)	
Belgium – Occupational Exposure Limits	
OEL TWA	1907 mg/m ³
OEL TWA [ppm]	1000 ppm
France – Occupational Exposure Limits	
VME (OEL TWA)	1900 mg/m ³
VME (OEL TWA) [ppm]	1000 ppm
VLE (OEL C/STEL)	9500 mg/m ³
VLE (OEL C/STEL) [ppm]	5000 ppm
Netherlands – Occupational Exposure Limits	
TGG-8u (OEL TWA)	260 mg/m ³
TGG-8u (OEL TWA) [ppm]	136 ppm
TGG-15min (OEL STEL)	1900 mg/m ³
TGG-15min (OEL STEL) [ppm]	992 ppm
United Kingdom – Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA) [1]	1920 mg/m ³
WEL TWA (OEL TWA) [2]	1000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
USA – ACGIH – Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	1000 ppm

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

OEL STEL [ppm]	100 ppm
France – Occupational Exposure Limits	
VME (OEL TWA)	270 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	450 mg/m ³
VLE (OEL C/STEL) [ppm]	100 ppm
Netherlands – Occupational Exposure Limits	
TGG-15min (OEL STEL)	530 mg/m ³
TGG-15min (OEL STEL) [ppm]	98 ppm
United Kingdom – Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	270 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	541 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
USA – ACGIH – Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL [ppm]	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

Personal protective equipment symbol(s)

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**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

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.

8.2.5 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: Almost colourless.

Odour: Characteristic. Conforms to standard.

Odour threshold: Not available

Melting point: Not applicable

Freezing point: Not available

Boiling point: Not available

Flammability (solid, gas): Flammable liquid and vapour

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 Know): Not available

Vapour pressure: Not available

Vapour pressure at 50°C: Not available

Density: 0.94 (0.93 – 0.95) 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: 1.4 – 1.42

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

Propylene glycol (57-55-6)	
LD50 oral rat	22000 mg/kg (Rat, Male/female, Experimental value, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (24 h, Rabbit, Experimental value, Dermal, 14

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	day(s))
LC50 Inhalation – Rat	>44.9 mg/l (4 h, Rat, Male/female, Experimental value, Inhalation (aerosol), 7 day(s)A
ATE CLP (oral)	22000 mg/kg bodyweight

Ethyl acetate (141-78-6)

LD50 oral	10200 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)
LD50 dermal rabbit	> 20000 mg/kg bodyweight (24 hour cuff method, Rabbit, Male, Experimental value, Dermal)
ATE CLP (oral)	10200 mg/kg bodyweight

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

Isopentyl acetate (123-92-2)

LD50 oral	7400 mg/kg bodyweight (Rabbit, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Experimental value, Dermal)
ATE CLP (oral)	7400 mg/kg bodyweight

Skin corrosion/irritation: Not classified

Propylene glycol (57-55-6)

pH	6.5 – 7.5 (50%)
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Ethanol (64-17-5)

pH	7 (789 g/l, 20 °C)
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Serious eye damage/irritation: Not classified

Propylene glycol (57-55-6)

pH	6.5 – 7.5 (50%)
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Ethanol (64-17-5)

pH	7 (789 g/l, 20 °C)
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Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified



Reproductive toxicity: Not classified

STOT-single exposure: Not classified

Ethyl acetate (141-78-6)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Propylene glycol (57-55-6)Viscosity, kinematic 41.426 mm²/s**Ethyl acetate (141-78-6)**Viscosity, kinematic 0.489 mm²/s (25 °C)**Ethanol (64-17-5)**Viscosity, kinematic 1.082 mm²/s (40 °C)**Isopentyl acetate (123-92-2)**Viscosity, kinematic 1.006 mm²/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: 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): Harmful to aquatic life with long lasting effects.

Propylene glycol (57-55-6)

LC50 – Fish [1] 40613 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)

ErC50 algae 2420 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

Ethyl acetate (141-78-6)

LC50 – Fish [1] 230 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)

EC50 – Crustacea [1] 154 mg/l (48 h, Daphnia magna, Literature)



Ethanol (64-17-5)	
LC50 – Fish [1]	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
ErC50 72h – Algae [1]	275 mg/l (Equivalent or similar to OECD 201: Chlorella vulgaris, Static system, Fresh water, Experimental value, Growth rate)

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:

Propylene glycol (57-55-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.96 – 1.08 g O ₂ /g substance
Chemical oxygen demand (COD)	1.63 g O ₂ /g substance
ThOD	1.69 g O ₂ /g substance

ethyl acetate (141-78-6)	
Persistence and degradability	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

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 ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	0.43

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

12.3 - Bioaccumulative Potential:

Propylene glycol (57-55-6)



Partition coefficient n-octanol/water (Log Pow)	-1.07 (Experimental value, EU Method A.8: Partition Coefficient, 20.5°C)
Bioaccumulative Potential	Not bioaccumulative

Ethyl acetate (141-78-6)	
BCF – Fish [1]	30 (3 day(s), Leuciscus idus, Static system, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	0.68 (Experimental value, EPA OPPTS 830.7560, 20.5°C)
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500)

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

Isopentyl acetate (123-92-2)	
BCF – Fishh [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 (Low Kow < 4)

12.4 - Mobility in soil:

Propylene glycol (57-55-6)	
Surface tension	71.6 mN/m (21.5°C, 1.01 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalised Adsorption Coefficient (Log Koc)	0.46 (log Koc, Calculated value)
Ecology – soil	Highly mobile in soil

Ethyl acetate (141-78-6)	
Surface tension	0.024 mN/m (21.5°C)
Ecology – soil	Highly mobile in soil

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



Isopentyl acetate (123-92-2)			
Organic Carbon Adsorption Coefficient (Log Koc)	Normalised		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	
Propylene glycol (57-55-6)	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
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
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
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 collectors 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 namewww.specialingredients.co.uk



Proper shipping name (ADR): Not applicable
Proper shipping name (IMDG): Not applicable
Proper shipping name (IATA): Not applicable
Proper shipping name (ADN): Not applicable
Proper shipping name (RID): Not applicable

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate)
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate)
Proper Shipping Name (IATA) : Flammable liquid, n.o.s. (ethanol; ethyl alcohol ; isopentyl acetate)
Proper Shipping Name (ADN) : FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate)
Proper Shipping Name (RID) : FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate)
Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate), 3, III, (D/E)
Transport document description (IMDG) : UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate), 3, III
Transport document description (IATA) : UN 1993 Flammable liquid, n.o.s. (ethanol; ethyl alcohol ; isopentyl acetate), 3, III
Transport document description (ADN) : UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate), 3, III
Transport document description (RID) : UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol ; isopentyl acetate), 3, III

14.3 Transport hazard classes

ADR

Transport hazard class(es) (ADR): 3
Danger labels (ADR): 3



:

IMDG

Transport hazard class(es) (ADR): 3
Danger labels (ADR): 3



:

IATA

Transport hazard class(es) (ADR): 3
Danger labels (ADR): 3



:

ADN

Transport hazard class(es) (ADR): 3
Danger labels (ADR): 3



:

RID

Transport hazard class(es) (ADR): 3

Danger labels (ADR): 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: No

Marine pollutant: No

Other information: 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

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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 IMO instructions

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

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**(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 Regulation (2019/1148 on the marketing and use of explosives precursors).

Drug Precursors Regulation (273/2004): Contains no 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:

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamide; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

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: Lemon Oil, Orange Oil Terpenes, Ethanol are listed

SZW-lijst van mutagene stoffen : Lemon Oil, Orange Oil Terpenes are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding: Ethanol is listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid: Ethanol is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling: Ethanol is listed

Denmark

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

Danish National Regulations: Your 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

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	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:

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
Asp. Tox. 1	Aspiration hazard, Category 1
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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.



H319	Causes 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 SE 3	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.