



Specification

Product Name: Sparkling Wine Flavour Drop

Product Code: SPEC0133

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:

Ethanol alcohol, Natural flavouring substances, Natural flavouring preparations, Propylene Glycol (E1520).

Dietary Information:

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

Nutritional Information:

Energy: 1987.4kj/475kcal (Based on 100g)

Storage:

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

Packaging:

30ml	5056191000157
500ml	5056191010606
1 Litre	5056191005558
5 Litre	5056191005565

Country of Origin:

United Kingdom.

Shelf Life:

24 months if stored as above and unopened.

Density (g/ml) at 20°C:



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0.915 – 0.935

Refractive Index at 20°C:

1.400 – 1.420

Flashpoint °C (closed cup):

25

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

Flavouring

Hazards:

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: Sparkling Wine 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

www.specialingredients.co.ukTel: 01246 906247 | Foxwood Industrial Park, Chesterfield, S41 9RN, United Kingdom
Registered UK Company No: 08758412 | UK VAT No: GB175274393

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
- Serious eye damage/eye irritation, Category 2: H319

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

Adverse physicochemical, human health and environmental effects: Causes serious eye irritation.

2.2 – Label elements:

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



GSH02

GHS07

Signal word (CLP): Warning

Hazard statements (CLP):

- H226 - Flammable liquid and vapour.
- H319 - Causes serious eye irritation.

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.
 - P264 - Wash hands, forearms and face thoroughly after handling.
 - P280 - Wear protective clothing, eye protection, face protection.
- EUH-statements: EUH208 - Contains Valerian root oil(8057-49-6), Clove Leaf Oil(84961-50-2). May produce an allergic reaction.

EUH-statements: EUH208 - Contains trans-2-hexen-1-ol(928-95-0). May produce an allergic reaction.

2.3 – Other hazards:

Contains no PBT/vPvB substances 0.1% assessed in accordance with REACH Annex XIII

Component	
hexan-1-ol (111-27-3)	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
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
2-phenylethanol (60-12-8)	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
n-Butanol (71-36-3)	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
ethyl acetoacetate (141-97-9)	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 butyrate (105-54-4)	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]
n-Amyl Alcohol	CAS-No.: 71-41-0 EC-No.: 200-752-1	5 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335
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	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
hexan-1-ol	CAS-No.: 111-27-3 EC-No.: 203-852-3 EC Index-No.: 603-059-00-6	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
n-Butanol	CAS-No.: 71-36-3 EC-No.: 200-751-6 EC Index-No.: 603-004-00-6	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318



			STOT SE 3, H336 STOT SE 3, H335
2-phenylethanol	CAS-No.: 60-12-8 EC-No.: 200-456-2	1 – 5	Acute Tox. 4 (Oral), H302
trans-2-hexen-1-ol	CAS-No.: 928-95-0 EC-No.: 213-191-2	< 1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1, H317
1-Octen-3-ol	CAS-No.: 3391-86-4 EC-No.: 222-226-0	< 1	Acute Tox. 3 (Oral), H301
trans-2-hexenal	CAS-No.: 6728-26-3 EC-No.: 229-778-1	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311

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 plenty of water.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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:

Symptoms/effects after eye contact: Eye irritation.

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:

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. Avoid contact with skin and eyes.

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. Notify authorities if product enters sewers or public waters.

6.3 – Methods and material for containment and cleaning up:

Methods for cleaning up: Take up liquid spill into absorbent material.

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. Avoid contact with skin and eyes.

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:

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

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	
Local name	Propane-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

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	
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

n-Butanol (71-36-3)	
Belgium - Occupational Exposure Limits	
OEL TWA	62 mg/m ³
	20 ppm
France - Occupational Exposure Limits	
VLE (OEL C/STEL)	150 mg/m ³
	50 ppm
United Kingdom	
Local name	Butan-1-ol
WEL STEL (OEL STEL)	154 mg/m ³
	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	20 ppm

ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	734 mg/m ³
	200 ppm
IOEL STEL	400 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	1461 mg/m ³
	400 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	1400 mg/m ³
	400 ppm
United Kingdom	
Local name	Ethyl acetate
WEL TWA (OEL TWA)	734 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
	400 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	400 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

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: Almost Colourless.

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: Not available
Partition coefficient n-octanol/water (Log Kow): Not available
Vapour pressure: Not available
Vapour pressure at 50°C: Not available
Density: 0.925 (915 – 935) 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: 1400 – 1420

Other properties: 100% Passes through 560 micron filter

10: Stability and Reactivity:

10.1 – Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

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:

None under recommended storage and handling conditions (see section 7).

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:



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Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

hexan-1-ol (111-27-3)	
LD50 oral rat	720 – 1800 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	500 mg/kg bodyweight
LD50 dermal rabbit	1500 – 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	1750 mg/kg bodyweight
LC50 Inhalation - Rat	> 21 mg/l (1 h, Rat, Male / female, Experimental value, Inhalation (mist), 14 day(s))
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1500 mg/kg bodyweight

trans-2-hexenal (6728-26-3)	
LD50 oral	900 mg/kg bodyweight
LD50 dermal	600 mg/kg bodyweight
ATE CLP (oral)	900 mg/kg bodyweight
ATE CLP (dermal)	600 mg/kg bodyweight

isovaleraldehyde (590-86-3)	
LD50 dermal	2534 mg/kg bodyweight
ATE CLP (dermal)	2534 mg/kg bodyweight

1-Octen-3-ol (3391-86-4)	
LD50 oral rat	175 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 oral	340 mg/kg bodyweight
LD50 dermal	3300 mg/kg bodyweight
ATE CLP (oral)	175 mg/kg bodyweight
ATE CLP (dermal)	3300 mg/kg bodyweight

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



2-phenylethanol (60-12-8)	
LD50 oral rat	1603 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	1610 mg/kg bodyweight
LD50 dermal rabbit	2535 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	2500 mg/kg bodyweight
LC50 Inhalation – Rat	> 4.63 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
ATE CLP (oral)	1603 mg/kg bodyweight
ATE CLP (dermal)	2500 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

n-Amyl Alcohol (71-41-0)	
LD50 oral rat	≈ 3645 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	2292 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 1401 - 3742
ATE CLP (dermal)	2292 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h

n-Butanol (71-36-3)	
LD50 oral rat	2292 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 oral	500 mg/kg bodyweight
LD50 dermal rabbit	3430 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LD50 dermal	3400 mg/kg bodyweight
ATE CLP (oral)	500 mg/kg bodyweight



ATE CLP (dermal)	3400 mg/kg bodyweight
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ethyl acetate (141-78-6)

LD50 oral rat	10740 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 20000 mg/kg bodyweight (24 hour cuff method, 24 h, Rabbit, Male, Experimental value, Dermal)
ATE CLP (oral)	10200 mg/kg bodyweight

ethyl butyrate (105-54-4)

LD50 oral rat	13000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
ATE CLP (oral)	13000 mg/kg bodyweight

trans-2-hexen-1-ol (928-95-0)

LD50 oral rat	3500 mg/kg (Rat, Oral)
LD50 oral	3500 mg/kg bodyweight
LD50 dermal rabbit	4500 mg/kg (Rabbit, Dermal)
LD50 dermal	4500 mg/kg bodyweight
ATE CLP (oral)	3500 mg/kg bodyweight
ATE CLP (dermal)	4500 mg/kg bodyweight

Skin corrosion/irritation: Not classified

1-Octen-3-ol (3391-86-4)

pH	7
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Propylene glycol (57-55-6)

pH	6.5 – 7.5 (50 %)
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2-phenylethanol (60-12-8)

pH	6 – 7
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Ethanol (64-17-5)

pH	7 (789 g/l, 20 °C)
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n-Butanol (71-36-3)

pH	No data available in the literature
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**ethyl acetoacetate (141-97-9)**

pH	4 (11 %)
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Serious eye damage/irritation: Not classified

1-Octen-3-ol (3391-86-4)

pH	2.4 (0.1 mol/l)
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Propylene glycol (57-55-6)

pH	7
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Propylene glycol (57-55-6)

pH	6.5 – 7.5 (50 %)
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2-phenylethanol (60-12-8)

pH	6 – 7
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Ethanol (64-17-5)

pH	7 (789 g/l, 20 °C)
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n-Butanol (71-36-3)

pH	No data available in the literature
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ethyl acetoacetate (141-97-9)

pH	4 (11 %)
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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

n-Amyl Alcohol (71-41-0)

STOT-single exposure	May cause respiratory irritation.
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n-Butanol (71-36-3)

STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
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ethyl acetate (141-78-6)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

hexan-1-ol (111-27-3)	
Viscosity, kinematic	3.64 mm ² /s (40 °C, ASTM D445: Capillary viscometer)
isovaleraldehyde (590-86-3)	
Viscosity, kinematic	0.727 mm ² /s
1-Octen-3-ol (3391-86-4)	
Viscosity, kinematic	4.79 mm ² /s
Propylene glycol (57-55-6)	
Viscosity, kinematic	41.426 mm ² /s
2-phenylethanol (60-12-8)	
Viscosity, kinematic	14.1 mm ² /s (20 °C, OECD 114: Viscosity of Liquids)
Ethanol (64-17-5)	
Viscosity, kinematic	1.082 mm ² /s (40 °C)
n-Butanol (71-36-3)	
Viscosity, kinematic	No data available in the literature
ethyl acetate (141-78-6)	
Viscosity, kinematic	0.489 mm ² /s (25 °C)
ethyl acetoacetate (141-97-9)	
Viscosity, kinematic	1.648 mm ² /s
ethyl butyrate (105-54-4)	
Viscosity, kinematic	0.682 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

hexan-1-ol (111-27-3)	
LC50 - Fish [1]	97.2 – 97.5 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	201 mg/l (Equivalent or similar to OECD 202, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)
EC50 72h - Algae [1]	79.7 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

1-Octen-3-ol (3391-86-4)	
EC50 - Crustacea [1]	8.02 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	7.05 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Experimental value, Growth rate)

Propylene glycol (57-55-6)	
LC50 - Fish [1]	40613 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)
ErC50 algae	24200 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

2-phenylethanol (60-12-8)	
LC50 - Fish [1]	215 – 464 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	287.17 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	1300 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)



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)

n-Butanol (71-36-3)	
LC50 - Fish [1]	1376 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	1328 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	225 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 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)

ethyl acetoacetate (141-97-9)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

ethyl butyrate (105-54-4)	
LC50 - Fish [1]	17 mg/l (48 h, Leuciscus idus)
EC50 - Crustacea [1]	755 mg/l (Daphnia magna)

12.2 – Persistence and Degradability:

hexan-1-ol (111-27-3)	
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.
Chemical oxygen demand (COD)	2.6 g O /g substance
ThOD	2.8 g O /g substance

isovaleraldehyde (590-86-3)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.423 g O /g substance



Chemical oxygen demand (COD)	1.908 g O /g substance
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1-Octen-3-ol (3391-86-4)

Persistence and degradability	Readily biodegradable in water.
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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 /g substance
Chemical oxygen demand (COD)	1.63 g O /g substance
ThOD	1.69 g O /g substance

2-phenylethanol (60-12-8)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.45 g O /g substance
Chemical oxygen demand (COD)	2.5 g O /g substance
ThOD	2.6 g O /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

n-Butanol (71-36-3)

Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.1 – 1.92 g O /g substance
Chemical oxygen demand (COD)	2.46 g O /g substance
ThOD	2.59 g O /g substance

ethyl acetate (141-78-6)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.293 g O /g substance
Chemical oxygen demand (COD)	1.69 g O /g substance
ThOD	1.82 g O /g substance



ethyl acetoacetate (141-97-9)	
Persistence and degradability	Readily biodegradable in water.

ethyl butyrate (105-54-4)	
Persistence and degradability	Readily biodegradable in water.

5-methylfurfural (620-02-0)	
Persistence and degradability	Biodegradability in soil: no data available. Biodegradability in water: no data available.
ThOD	2.479 g O /g substance

trans-2-hexen-1-ol (928-95-0)	
Persistence and degradability	Biodegradability in water: no data available.

12.3 - Bioaccumulative Potential:

hexan-1-ol (111-27-3)	
BCF - Other aquatic organisms [1]	10 l/kg (BCFBAF v3.01, QSAR, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	1.8 (Experimental value, ASTM E1147)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

trans-2-hexenal (6728-26-3)	
Partition coefficient n-octanol/water (Log Pow)	1.58 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

isovaleraldehyde (590-86-3)	
Partition coefficient n-octanol/water (Log Pow)	1.31 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

1-Octen-3-ol (3391-86-4)	
Partition coefficient n-octanol/water (Log Pow)	2.5 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 35 °C)
Bioaccumulative potential	Not bioaccumulative.

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.
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2-phenylethanol (60-12-8)

BCF - Fish [1]	2.036 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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.

n-Butanol (71-36-3)

Partition coefficient n-octanol/water (Log Pow)	1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

ethyl acetoacetate (141-97-9)

Partition coefficient n-octanol/water (Log Pow)	0.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

ethyl butyrate (105-54-4)

BCF - Other aquatic organisms [1]	12 (Estimated value)
Partition coefficient n-octanol/water (Log Pow)	1.73 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

trans-2-hexen-1-ol (928-95-0)

Bioaccumulative potential	No bioaccumulation data available.
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**12.4 - Mobility in soil:**

hexan-1-ol (111-27-3)			
Surface tension		30.21 mN/m (25 °C, 5.28 g/l)	
Organic Carbon Adsorption Coefficient (Log Koc)	Normalized	1.25 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology – soil		Highly mobile in soil.	

isovaleraldehyde (590-86-3)			
Surface tension	0.023 N/m (20 °C)		

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 Adsorption Coefficient (Log Koc)	Normalized	0.46 (log Koc, Calculated value)	
Ecology – soil		Highly mobile in soil	

2-phenylethanol (60-12-8)			
Surface tension			59.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Adsorption Coefficient (Log Koc)	Normalized	1.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology – soil			Highly mobile in soil

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

n-Butanol (71-36-3)			
Surface tension			69.9 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Adsorption Coefficient (Log Koc)	Normalized	0.54 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology – soil			Highly mobile in soil. May be harmful to plant growth, blooming and fruit formation.



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

ethyl acetoacetate (141-97-9)	
Ecology – soil	No (test) data on mobility of the substance available.

ethyl butyrate (105-54-4)	
Surface tension	0.025 N/m
Ecology – soil	Highly mobile in soil.

12.5 - Results of PBT and vPvB assessment:

Component	
hexan-1-ol (111-27-3)	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
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
2-phenylethanol (60-12-8)	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
n-Butanol (71-36-3)	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
ethyl acetoacetate (141-97-9)	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 butyrate (105-54-4)	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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12.6 – Endocrine disruptins 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.

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. (MIXTURE)

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. (MIXTURE), 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 (AND): 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 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:

France



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 dimethylacetamine; 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: Ethanol is listed

SZW-lijst van mutagene stoffen: None of the components 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 : Pregnant/breastfeeding women working with the product must not be in direct contact with 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:		
Acute Tox. 3 (Dermal)	3	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)		Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	4	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	4	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4
EUH208		Contains trans-2-hexen-1-ol(928-95-0). May produce an allergic reaction.
Eye Dam. 1		Serious eye damage/eye irritation, 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.
H301		Toxic if swallowed.
H302		Harmful if swallowed.
H311		Toxic in contact with skin.
H312		Harmful in contact with skin.
H315		Causes skin irritation.
H317		May cause an allergic skin reaction.
H318		Causes serious eye damage.
H319		Causes serious eye irritation.
H332		Harmful if inhaled.
H335		May cause respiratory irritation.
H336		May cause drowsiness or dizziness.



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, Respiratory tract irritation

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.