



Specification

Product Name: Vegan Cheese Flavour Drop
Product Code: SPEC0310

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, Natural flavouring substances, 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: 1673.6kj/400kcal (Based on 100g).

Storage:

Store in cool, dry conditions not in direct sunlight.

Packaging:

30ml	5056191025792
500ml	5056191025808
1 Litre	5056191025815
5 Litre	5056191025822

Country of Origin:

United Kingdom.

Shelf Life:

24 months if stored as above and unopened.

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**Density (g/ml) at 20°C:**

1.015 – 1.035

Refractive Index at 20°C:

1.420 – 1.440

Flashpoint °C (closed cup):

> 60

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

Natural Flavouring

Hazards:

Corrosive. Please refer to material safety data sheet.

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: Vegan Cheese 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

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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):

Skin corrosion/irritation, Category 1, Sub-Category 1B: H314

Full text of H- and EUH-statements: see Section 16.

Adverse psychochemical, human health and environmental effects: Causes severe skin burns and eye damage.

2.2 – Label elements:**Labelling according to Regulation (EC) no. 1272/2008 [CLP], Extra labelling to display/Extra classification(s) to display.**

Hazard pictograms (CLP)



GHS05

Signal word (CLP): Danger

Contains: butyric acid.

Hazard statements (CLP): H314 – Causes severe skin burns and eye damage.

Precautionary Statements:

- P260 – Do not breath vapours.
- P264 – Wash hands, forearms and face thoroughly after handling.
- P280 – Wear protective clothing, eye protection, face protection.
- P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P304+P340 – IF INHALED: remove person to fresh air and keep comfortable for breathing.

2.3 – Other hazards:Contains no PBT/vPvB substances $\geq 0.1\%$ 1907/2006 amended by Regulation (EU) 2020/878.

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
Butyric Acid (107-92-6)	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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Hexanoic acid (142-62-1)	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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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)
Butyric Acid	CAS-NO.: 107-92-6 EC-No.: 203-532-3 EC Index-No.: 607-135-00-X	5 - 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Hexanoic acid	CAS-NO.: 142-62-1 EC-No.: 205-550-7	1 – 5	Skin Corr. 1C, H314 Eye Dam. 1, H318
Diacetyl	CAS-NO.: 431-03-8 EC-No.: 207-069-8	< 1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation: vapour), H331

Full Text of H- and EUH statements: see section 15.

4: First Aid Measures:

4.1 – Description of First Aid Measures:

First Aid Measures general: Call a physician immediately.

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. Take off contaminated clothing. Call a physician immediately.

First Aid Measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician immediately.

First Aid Measures after ingestion: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms / effects after skin contact: Burns.

Symptoms / effects after eye contact: Serious damage to eyes.

Symptoms/effects after ingestion: Burns.

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

Treat Symptomatically.

5: Firefighting Measures:

5.1 - Extinguishing media:

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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. Do not breath 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.

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. Do not breathe dust/fumes/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures: Wash contaminated clothing before re-use. 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 locked up. 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 – Occupational Exposure Limits	
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

Diacetyl (431-03-8)	
United Kingdom – Occupational Exposure Limits	
Local name	Diacetyl (Butanedione)
WEL TWA (OEL TWA) [1]	0.07 mg/m ³
WEL TWA (OEL TWA) [2]	0.02 ppm
WEL STEL (OEL STEL)	0.36 mg/m ³
WEL STEL (OEL STEL) [ppm]	0.1 ppm
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

8.1.2 Recommended monitoring procedures

No additional information available.

8.1.3 Air contaminants found

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)

**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

Avoid release to the environment.

9: Physical and Chemical Properties:

9.1 – Information on basic physical and chemical properties:

Physical state: Liquid

Colour: Not available

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: > 60°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: 1.025 (1.015 – 1.035) 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: 1.42 – 1.44

Stability and Reactivity:

10.1 – Reactivity:

This 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:

Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

Oleic acid (112-80-1)	
LD50 oral rat	> 19200 mg/kg (Rat, Oral)



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

Butyric acid (107-92-6)	
LD50 oral rat	1632 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	1630 mg/kg bodyweight
LD50 dermal rabbit	6096 mg/kg bodyweight (Equivalent or similar to OECD 402, 14 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation – Rat	> 5.1 mg/l (Equivalent or similar to OECD 403, 4 h, Rabbit, Male/female, Experimental value, Inhalation (vapours), 14 day(s))
ATE CLP (oral)	1630 mg/kg bodyweight
ATE CLP (dermal)	6096 mg/kg bodyweight

Hexanoic acid (142-62-1)	
LD50 oral rat	6440 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 oral	4000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402, Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))
LC50 Inhalation – Rat	> 1.369 mg/l (IRT (inhalation risk test), 8 h, Rat, Male, Experimental value, (maximum achievable concentration), Inhalation (vapours))
ATE CLP (oral)	6440 mg/kg bodyweight

Diacetyl (431-03-8)	
LD50 oral	1580 mg/kg bodyweight
LC50 Inhalation – Rat (Vapours)	3 mg/l/4h
ATE CLP (oral)	6440 mg/kg bodyweight
ATE CLP (vapours)	3 mg/5/4h

Skin corrosion/irritation: Causes severe skin burns

Propylene glycol (57-55-6)	
pH	6.5 – 7.5 (50%)

**Butyric acid (107-92-6)**

pH	2 (50%, 25°C, DIN 19268)
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Hexanoic acid (142-62-1)

pH	4 (1.2%)
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Serious eye damage/irritation: Assumed to cause serious eye damage

Propylene glycol (57-55-6)

pH	6.5 – 7.5 (50%)
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Butyric acid (107-92-6)

pH	2 (50%, 25°C, DIN 19268)
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Hexanoic acid (142-62-1)

pH	4 (1.2%)
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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

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Oleic acid (112-80-1)

Viscosity, kinematic	29.213mm ² /s
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Propylene glycol (57-55-6)

Viscosity, kinematic	4.426mm ² /s
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Butyric acid (107-92-6)

Viscosity, kinematic	1.74mm ² /s
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Hexanoic acid (142-62-1)

Viscosity, kinematic	10.003 mm ² /s (20°C)
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11.1 – Information on other hazards**11.2.1 Endocrine disrupting properties**

No additional information available.

11.2.1 Other information

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

12: Ecological Information:

**12.1 – Toxicity:**

Ecology – General: Before neutralisation, the product may represent a danger to aquatic organisms.

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.

Oleic acid (112-80-1)	
LC50 – Fish [1]	205 mg/l (96 h, Pimephales promelas, Static system)

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)

Butyric acid (107-92-6)	
LC50 – Fish [1]	77 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 – Crustacea [1]	51.25 mg/l (DIN 38412-11, 48h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h – Algae [1]	45.1 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Read-across, Biomass)

Hexanoic acid (142-62-1)	
LC50 – Fish [1]	88 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 – Crustacea [1]	72 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48h Daphnia magna, Semi-static system, Fresh water, Read-across, GLP)
EC50 72h – Algae [1]	52.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum camricornutum)
EC50 72h – Algae [2]	56.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum camricornutum)
ErC50 algae	56.4 mg/l (OECD 201: Algal Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP).
LOEC (chronic)	40.3 mg/l Test organisms (species): Daphnia magna Duration '21 d'
NOEC (chronic)	17.9 mg/l Test organisms (species): Daphnia magna Duration '21 d'

12.2 – Persistence and Degradability:

Oleic acid (112-80-1)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Chemical oxygen demand (COD)	2.25g O ₂ /g substance
ThOD	2.89g O ₂ /g substance



BOD (% of ThOD)	>0.5 (5 days(s), Literature study)
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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 ₂ /g substance
Chemical oxygen demand (COD)	1.63 g O ₂ /g substance
ThOD	1.69 g O ₂ /g substance

Butyric acid (107-92-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Chemical oxygen demand (COD)	1.95g O ₂ /g substance
ThOD	1.818g O ₂ /g substance

Hexanoic acid (142-62-1)	
Persistence and degradability	Readily biodegradable in water.

12.3 - Bioaccumulative Potential:

Oleic acid (112-80-1)	
Partition coefficient n-octanol/water (Log Pow)	5.24 – 7.18 (QSAR)

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

Butyric acid (107-92-6)	
BCF – Other aquatic organisms [1]	3.162 (BCFBAF v3.00, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	1.1 (Experimental value, OECD 117: Partition coefficient (n-octanol/water), HPLC method, 20.5°C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).

Hexanoic acid (142-62-1)	
BCF – Other aquatic organisms [1]	234-288 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Danio rerio, Flow-through system, Fresh water, Read-across, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.75 (Weight of evidence approach, Equivalent or similar to OECD 107, 25°C)
Bioaccumulative Potential	Low potential for bioaccumulation (BCF < 500).

**12.4 - Mobility in soil:**

Oleic acid (112-80-1)	
Surface tension	0.033 N/m (20°C)
Ecology – soil	Adsorbs into the 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

Butyric acid (107-92-6)	
Surface tension	68.5 mN/m (20°C, 1g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalised Adsorption Coefficient (Log Koc)	0.419 (log Koc), SRC PCKOCWIN v2.0, QSAR)
Ecology – soil	Highly mobile in soil

Hexanoic acid (142-62-1)	
Surface tension	23.4 N/m (70°C)
Organic Carbon Normalised Adsorption Coefficient (Log Koc)	1.22 (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
Butyric acid (107-92-6)	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
Hexanoic acid (142-62-1)	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:

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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.

14: Transport Information:

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

14.1 UN number

UN-NO. (ADR): UN3265

UN-NO. (IMDG): UN3265

UN-NO. (IATA): UN3265

UN-NO. (ADN): UN3265

UN-NO. (RID): UN3265

14.2 UN proper shipping name

Proper shipping name (ADR): CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid)

Proper shipping name (IMDG): CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid)

Proper shipping name (IATA): Corrosive liquid, acidic, organic, n.o.s. (butyric acid ; hexanoic acid)

Proper shipping name (ADN): CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid)

Proper shipping name (RID): CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid)

Transport document description (ADR): UN 2365 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid), 8, II, (E)

Transport document description (IMDG): UN 2365 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid), 8, II

Transport document description (IATA): UN 2365 Corrosive liquid, acidic, organic, n.o.s. (butyric acid ; hexanoic acid), 8, ii

Transport document description (ADN): UN 2365 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid), 8, II

Transport document description (RID): UN 2365 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (butyric acid ; hexanoic acid), 8, II

14.3 Transport hazard classes

ADR

Transport hazard class (es) (ADR): 8

Danger labels (ADR): 8



IMDG

Transport hazard class (es) (IMDG): 8



Danger labels (IMDG): 8



IATA

Transport hazard class (es) (IATA): 8

Danger labels (IATA): 8



ADN

Transport hazard class (es) (ADN): 8

Danger labels (ADN): 8



RID

Transport hazard class (es) (RID): 8

Danger labels (RID): 8



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): C3

Special provisions (ADR): 274

Limited quantities (ADR): 1L

Excepted quantities (ADR) E1

Packing instructions (ADR): P001, IBC02

Mixed packing provisions (ADR): MP15

Portable tank and bulk container instructions (ADR): T11

Portable tank and bulk container special provisions (ADR): TP2, TP27

Tank code (ADR): L4BN

Vehicle for tank carriage: AT



Transport category (ADR): 2

Hazard identification number (Kemler no.): 80

Orange plates:

80

3265

Tunnel restriction code (ADR): E

EAC code: 2X

APP code: B

Transport by Sea

Special provisions (IMDG): 274,

Limited quantities (IMDG): 1 L

Excepted quantities (IMDG): E1

Packing instructions (IMDG): P001

IBC packing instructions (IMDG): IBC02

Tank instructions (IMDG): T11

Tank special provisions (IMDG): TP2, TP27

EmS - No. (Fire): F-A

EmS (spillage): B-B

Stowage category (IMDG): B

Stowage and handling (IMDG): SW2

Segregation (IMDG): SG36, SG49

Properties and observations (IMDG): Causes burns to skin, eye and mucous membranes.

Air Transport

PCA excepted quantities (IATA): E2

PCA Limited quantities (IATA): Y840

PCA limited quantity max net quantity (IATA): 0.5L

PCA packing instructions (IATA): 851

PCA max net quantity: 1L

CAO packing instructions (IATA): 855

CAO max net quantity (IATA): 30L

Special provisions (IATA): A3, A803

ERG code (IATA): 8L

Inland waterway transport

Classification code: (ADN): C3

Special provisions (ADN): 274

Limited quantities (ADN): 1L

Excepted quantities (ADN): E2

Equipment required (ADN): PP, EP

Number of blue cones/lights (ADN): 0

Rail transport

Classification Code (RID): C3

Special provisions (RID): 274

Limited quantities (RID): 1L

Excepted quantities (RID): E1

Packing instructions (RID): P001, IBC02

Mixed packing provisions (RID): MP15



Portable tank and bulk container instructions (RID): T11

Portable tank and bulk container special provisions (RID): TP2, TP27

Tank codes for RID tanks (RID): L4BN

Transport category (RID): 2

Colis express (express parcels) (RID): CE6

Hazard identification number (RID): 80

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 (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:

Germany

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

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

Netherlands

SZW-lijst van kankerverwekkende stoffen: None of the components are listed

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

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

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

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

Denmark

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

Danish National Regulations: Young people below the age of 18 years are not allowed to use the product. 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 (Inhalation: Vapour)	3	Acute toxicity (inhalation: vapour) Category 3
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4
Eye Dam. 1		Serious eye damage / eye irritation, Category 1



Flam. Liq. 2	Flammable liquids, Category 2
Eye Irrit. 2	Serious eye damage / eye irritation, Category 2
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

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.