

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product identification:** Concentrated mixture of aromatic raw materials (fragrance)  
**Name:** GINGERBREAD - STYLE RANGE

### 1.2 Relevant identified uses of the mixture

Manufacturing use only. Not for personal use in this form or concentration

### 1.3 Details of the supplier of the safety data sheet

Company: Escentscia Limited  
Address: 6 Pioneer Park, Clough Road, Hull. HU6 7HW UK.

e-mail: [msds@escentscia.uk](mailto:msds@escentscia.uk)  
website: [www.escentscia.uk](http://www.escentscia.uk)  
Telephone: +44 (0)1482 332766

### 1.4 Emergency telephone number

Emergency telephone number: +44 (0)1482 332766  
Opening hours: 09:00-16:00, Monday - Friday

**Further information obtainable from:** Technical Department

### 1.4 Emergency telephone number:

National Poisons Information Service  
+44 121 507 4123

Members of the public seeking specific information on poisons should contact:  
In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 111

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



health hazard

Carc. 1A

H350 May cause cancer.

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2      H315 Causes skin irritation.  
 Eye Irrit. 2      H319 Causes serious eye irritation.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.

## 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

### Hazard pictograms



GHS07



GHS08



GHS09

**Signal word** Danger

### Hazard-determining components of labelling:

cinnamaldehyde  
 Nutmeg oil  
 Coumarin  
 Eugenol  
 piperonal  
 alpha-Amylcinnamaldehyde  
 Diacetyl  
 Methylcyclopentenolone  
 Balsams, tolu

### Hazard statements

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H350 May cause cancer.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P101      If medical advice is needed, have product container or label at hand.

# Safety data sheet

## according to 1907/2006/EC, Article 31

Version number 1

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.







**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 120-51-4	Benzyl benzoate	>25–≤50%
EINECS: 204-402-9	⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302	
CAS: 104-55-2	cinnamaldehyde	>10–≤25%
EINECS: 203-213-9	⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 121-32-4	Ethyl vanillin	>2.5–<10%
EINECS: 204-464-7	⚠ Eye Irrit. 2, H319	
CAS: 91-64-5	Coumarin	>2.5–≤10%
EINECS: 202-086-7	⚠ Acute Tox. 4, H302; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 97-53-0	Eugenol	>2.5–<10%
EINECS: 202-589-1	⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 60-12-8	Phenethyl alcohol	>2.5–<10%
EINECS: 200-456-2	⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	
CAS: 98-55-5	alpha-Terpineol	≤2.5%
EINECS: 202-680-6	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 123-11-5	anisaldehyde	<2.5%
EINECS: 204-602-6	Aquatic Chronic 3, H412	
CAS: 4940-11-8	Ethyl maltol	≤2.5%
EINECS: 225-582-5	⚠ Acute Tox. 4, H302	
CAS: 120-57-0	piperonal	≥1–≤2.5%
EINECS: 204-409-7	⚠ Skin Sens. 1, H317	
CAS: 122-40-7	alpha-Amylcinnamaldehyde	≥1–<2.5%
EINECS: 204-541-5	⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	
CAS: 431-03-8	Diacetyl	≥0.1–<1%
EINECS: 207-069-8	⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H331; ⚠ STOT RE 2, H373; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 80-71-7	Methylcyclopentenolone	≥0.1–<1%
EINECS: 201-303-2	⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1B, H317	

# Safety data sheet

## according to 1907/2006/EC, Article 31

Version number 1

CAS: 9000-64-0	Balsams, tolu	≥0.25—<1%
EINECS: 232-550-4	 Aquatic Chronic 2, H411;  Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 8008-45-5	Nutmeg oil	≥0.1—<0.25%
EINECS: 282-013-3	 Flam. Liq. 3, H226;  Muta. 2, H341; Carc. 1A, H350; Asp. Tox. 1, H304;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Irrit. 2, H315; Skin Sens. 1, H317	

### Regulation (EC) No 648/2004 on detergents / Labelling for contents

perfumes (BENZYL BENZOATE, CINNAMAL, coumarine, eugenol, AMYL CINNAMAL, benzyl alcohol)

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Rinse opened eye for several minutes under running water.

#### After swallowing:

If symptoms persist consult doctor.

A person vomiting while laying on their back should be turned onto their side.

Seek immediate medical advice.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

### 5.3 Advice for firefighters

**Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective clothing.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

# Safety data sheet

## according to 1907/2006/EC, Article 31

Version number 1

Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about fire - and explosion protection:** Keep respiratory protective device available.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Store away from foodstuffs.

#### Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Additional information about design of technical facilities:** No further data; see item 7.

#### Ingredients with limit values that require monitoring at the workplace:

##### CAS: 431-03-8 Diacetyl

WEL Short-term value: 0.36 mg/m<sup>3</sup>, 0.1 ppm

Long-term value: 0.07 mg/m<sup>3</sup>, 0.02 ppm

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

##### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Oily
<b>Colour:</b>	Yellow-brown
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Mixture is non-soluble (in water).

**Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	252 °C (CAS: 104-55-2 cinnamaldehyde)
<b>Flash point:</b>	> 70 °C
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure at 76 °C:</b>	1.3 hPa (CAS: 104-55-2 cinnamaldehyde)
<b>Density:</b>	Not determined.
<b>Relative density</b>	Not determined.

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Insoluble (10%)
<b>alcohols:</b>	Partly miscible.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.4 %
<b>VOC (EC)</b>	0.35 %
<b>Solids content:</b>	61.9 %
<b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

### 10.2 Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

#### ATE (Acute Toxicity Estimates)

Oral LD50 2,315 mg/kg

Dermal LD50 5,500 mg/kg

#### CAS: 120-51-4 Benzyl benzoate

Oral LD50 1,700 mg/kg

Dermal LD50 4,000 mg/kg

#### CAS: 104-55-2 cinnamaldehyde

Oral LD50 2,220 mg/kg

#### CAS: 121-32-4 Ethyl vanillin

Oral LD50 1,590 mg/kg

#### CAS: 91-64-5 Coumarin

Oral LD50 293 mg/kg

#### CAS: 97-53-0 Eugenol

Oral LD50 1,930 mg/kg

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

**CAS: 60-12-8 Phenethyl alcohol**

Oral LD50 1,790 mg/kg

Dermal LD50 790 mg/kg

**CAS: 98-55-5 alpha-Terpineol**

Oral LD50 4,300 mg/kg

**CAS: 123-11-5 anisaldehyde**

Oral LD50 1,510 mg/kg

Dermal LD50 >5,000 mg/kg

**CAS: 120-57-0 piperonal**

Oral LD50 2,700 mg/kg

**CAS: 431-03-8 Diacetyl**

Oral LD50 1,580 mg/kg

**Primary irritant effect:****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Additional toxicological information:****CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Ecotoxicological effects:**

**Remark:** Toxic for fish

**Additional ecological information:****General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.



# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

**12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

### 14.1 UN-Number

**ADR, IMDG, IATA** UN3082

### 14.2 UN proper shipping name

**ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Benzyl benzoate, BUTANEDIONE)

#### IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### IATA

(Benzyl benzoate, BUTANEDIONE), MARINE POLLUTANT

Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate, BUTANEDIONE)

### 14.3 Transport hazard class(es)

**ADR, IMDG, IATA**



**Class**

9 Miscellaneous dangerous substances and articles.

**Label**

9

### 14.4 Packing group

**ADR, IMDG, IATA** III

### 14.5 Environmental hazards:

#### Marine pollutant:

Symbol (fish and tree)

#### Special marking (ADR):

Symbol (fish and tree)

#### Special marking (IATA):

Symbol (fish and tree)

### 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

### Hazard identification number (Kemler code):

90

### EMS Number:

F-A,S-F

### Stowage Category

A

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

Not applicable.

### Transport/Additional information:

#### ADR

**Limited quantities (LQ)**

5L

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

### Transport category

3

# Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1

Tunnel restriction code

(-)

**IMDG**

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (BENZYL BENZOATE, BUTANEDIONE), 9, III**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

GHS07

GHS08

GHS09

**Signal word** Danger**Hazard-determining components of labelling:**

cinnamaldehyde

Nutmeg oil

Coumarin

Eugenol

piperonal

alpha-Amylcinnamaldehyde

Diacetyl

Methylcyclopentenolone

Balsams, tolu

**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

# Safety data sheet

## according to 1907/2006/EC, Article 31

Version number 1

### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category** E2 Hazardous to the Aquatic Environment

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

### National regulations:

#### Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

**Department issuing SDS:** Technical Department

#### Contact:

Technical Department

msds@escentscia.uk

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

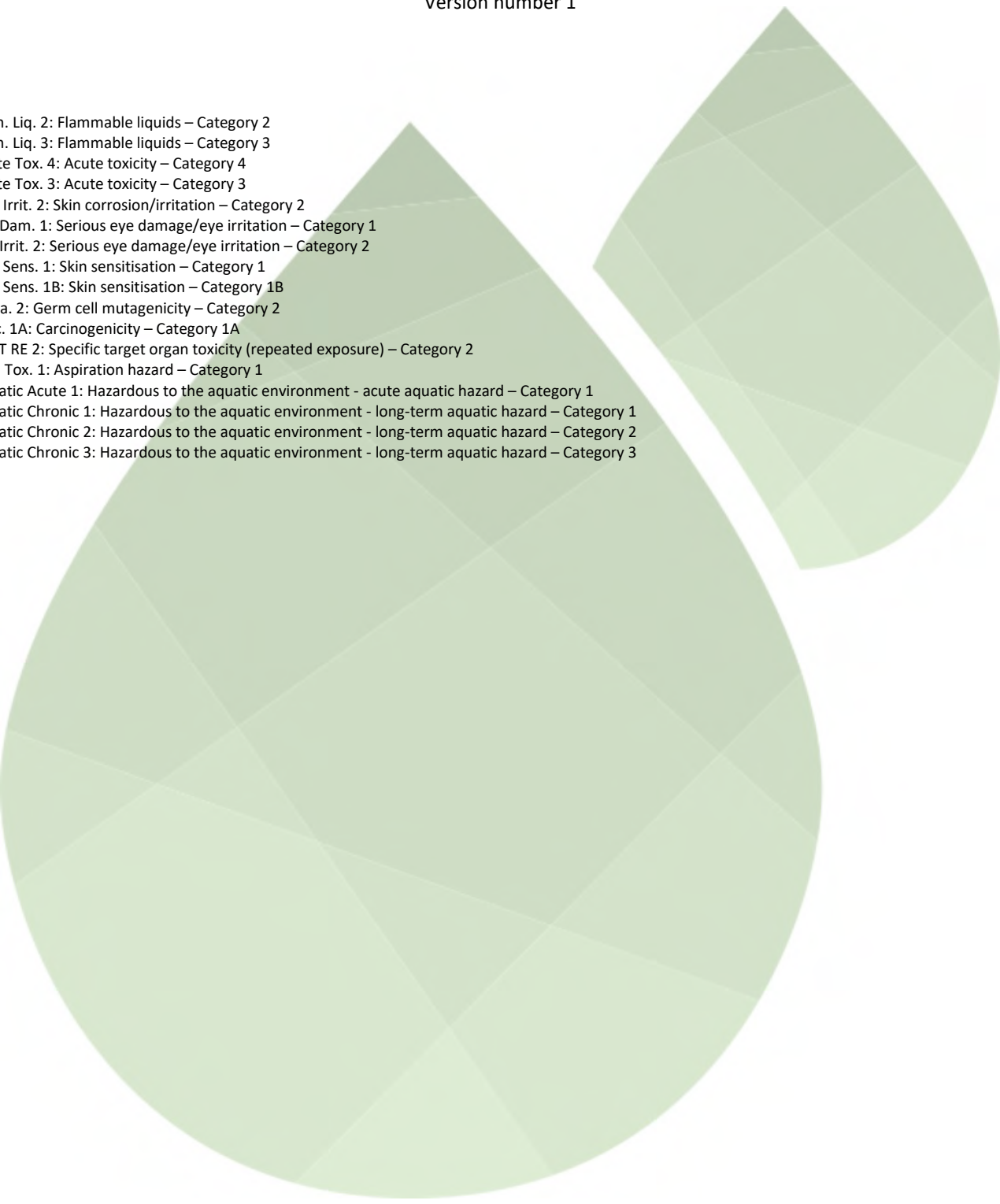
PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

## Safety data sheet

according to 1907/2006/EC, Article 31

Version number 1



Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Muta. 2: Germ cell mutagenicity – Category 2  
Carc. 1A: Carcinogenicity – Category 1A  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3