

# Cosmetic Product Safety Report

Conforming to

REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on COSMETIC PRODUCTS and SCHEDULE 34 OF THE PRODUCT SAFETY AND METROLOGY ETC. (AMENDMENT ETC.) (EU EXIT) REGULATIONS 2019

By Cosmetic Safety Solutions Ltd on behalf of the named manufacturer below

<b>CSS Reference</b>	ED060323BBCPSR
<b>Product line</b>	Bath Bombs
<b>Product variants</b>	<ol style="list-style-type: none"><li>1. Lemon</li><li>2. Lemon and Eucalyptus</li><li>3. Rose Geranium</li><li>4. Sweet Orange</li><li>5. Lavender &amp; Chamomile</li><li>6. Ylang-Ylang, Lavender &amp; Amyris</li><li>7. Eucalyptus &amp; Peppermint</li><li>8. Tea Tree</li></ol>
<b>Product category</b>	Products to be dissolved in bathing water - rinse off products
<b>Responsible person</b>	<p>EU: Angelina de Jesus Rocha Soares Bairro Sra da Graca porta 16, Roussas-Melgaco 4960-581 Portugal</p> <p>UK: Sandra Estefania Dogan 5 Oxford Road, Southsea, PO51NP Portsmouth</p>

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## **Report Validity Conditions**

**This Safety Assessment Report is valid only for the named responsible person and is not transferable to any other party without prior written agreement from Cosmetic Safety Solutions Ltd.**

**Cosmetic Safety Solutions Ltd. and its directors will accept no liability for the misuse of this document or for any cosmetic product formulated outside the remit of this document; this includes, but is not limited to 'cupcake' type soaps or any product which may be mistaken for food and is subsequently in violation the European food imitation regulations.**

**All manufacture must comply with appropriate standards of Good Manufacturing Practice as detailed in REGULATION (EC) No 1223/2009**

**All raw material specifications and finished product specifications must comply with any restrictions (purity etc.) detailed in REGULATION (EC) No 1223/2009**

**Any deviation from the prescribed formulation and list of permitted ingredients is NOT covered by this safety report.**

**MSDS sheets for all materials used must be included by the manufacturer as part of Safety Report Part A – additional information on raw materials (Identification and function) - <http://ec.europa.eu/consumers/cosmetics/cosing/>**

# Safety Report Part A

## 1. Quantitative formulations, concentration ranges (CPNP) and Margin of Safety summaries

Concentration ranges (CPNP):

A	>75% - ≤100%
B	>50% - ≤75%
C	>25% - ≤50%
D	>10% - ≤25%
E	>5% - ≤10%
F	>1% - ≤5%
G	>0.1% - ≤1%
H	≤0.1%

### Product Formulations:

#### 1. Lemon

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Citrus Limon Peel Oil	0.83	G	>100
Flash Bright Gold Mica (Mica, CI 77891, 77491)	0.28	G	>100
Hamamelis Virginiana Water	trace	H	>100

#### 2. Lemon and Eucalyptus

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Citrus Limon Peel Oil	0.42	G	>100
Eucalyptus Radiata Leaf/Stem Oil	0.42	G	>100
CI 77288	0.28	G	>100
Hamamelis Virginiana Water	trace	H	>100

### 3. Rose Geranium

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Pelargonium Graveolens Flower Oil	0.83	G	>100
Titan Pink Sparkle Mica (Mica, CI 77891, 77491, Tin Oxide)	0.28	G	>100
Hamamelis Virginiana Water	trace	H	>100

### 4. Sweet Orange

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Citrus Sinensis Peel Oil	0.83	G	>100
Bronze Sparkle (Synthetic Fluorophlogopite, CI 77491)	0.28	G	>100
Hamamelis Virginiana Water	trace	H	>100

### 5. Lavender & Chamomile

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Lavandula Angustifolia Oil	0.42	G	>100
Anthemis Nobilis Flower Oil	0.42	G	>100
Flash Bright Gold Mica (Mica, CI 77891, 77491)	0.14	G	>100
Titan Violet Sparkle Mica (Mica, CI 77891, 77491, 77742, Tin Oxide)	0.14	G	>100
Hamamelis Virginiana Water	trace	H	>100

## 6. Ylang-Ylang, Lavender & Amyris

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Cananga Odorata Flower Oil	0.28	G	>100
Lavandula Angustifolia Oil	0.28	G	>100
Amyris Balsamifera Bark Oil	0.28	G	>100
Titan Pink Sparkle Mica (Mica, CI 77891, 77491, Tin Oxide)	0.28	G	>100
Hamamelis Virginiana Water	trace	H	>100

## 7. Eucalyptus & Peppermint

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Eucalyptus Radiata Leaf/Stem Oil	0.42	G	>100
Mentha Piperita Oil	0.42	G	>100
CI 77288	0.28	G	>100
Hamamelis Virginiana Water	trace	H	>100

## 8. Tea Tree

INCI	Weight, %	Concentration Range (CPNP)	MOS Summary <sup>†</sup>
Sodium Bicarbonate	33.24	C	>100
Citric Acid	16.62	D	>100
Magnesium Sulfate	16.62	D	>100
Zea Mays Starch	24.93	D	>100
Prunus Amygdalus Dulcis Oil	7.48	E	>100
Melaleuca Alternifolia Leaf Oil	0.83	G	>100
Charcoal Powder	0.28	G	>100
Hamamelis Virginiana Water	trace	H	>100

<sup>†</sup> See Section 10 for detailed information

## 2. Final product characteristics

### Physical and Chemical Properties:

Solid bath bombs with fragrance characteristic of essential oils used.

pH – expected range 7-8 when dissolved in water (dilution factor of approximately 1000x for bath products).

### Raw Materials:

Please refer to supplier MSDS and CoA information which should be used in conjunction with this report.

### Stability and Reactivity:

The product is expected to be nominally stable at ambient storage conditions – to be confirmed by manufacturer based on observation of previous products made.

When the product is used, reaction between Sodium Bicarbonate and Citric Acid is expected, as per the purpose of the product - liberation of Carbon Dioxide during the formation of Sodium Citrate. Please note - this reaction occurs only in the presence of water - if the product is stored in humid conditions, this reaction may occur, which may have a detrimental effect on the “fizzing” of the product, but not the toxicological profile.

### Ingredient Purity:

Approved cosmetic, pharmaceutical or food grade ingredients are used. Where specific purity criteria (e.g. secondary amine content, heavy metals content) apply (as detailed in Ingredient toxicity profiles and MOS calculations section) these remain the responsibility of the responsible person.

### Microbiological Purity:

The final marketed product is anhydrous and does not support microbial growth under normal storage conditions.

The product is not specifically marketed as a product for use by children under 3 years, in the eye area and on mucous membranes, therefore it is classified as a Category 2 product: “Other products”.

For cosmetics classified as Category 2, the total viable count for aerobic mesophilic microorganisms (bacteria plus yeast and mould) should not exceed  $10^3$  CFU per g or ml of product (CFU - colony forming unit).

*Escherichia coli*, *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Candida albicans* are considered the main potential pathogens in cosmetic products. These specific potential pathogens must not be detectable in 1 g or ml of a cosmetic product.

### **3. Packaging**

No specific requirements (e.g. absence of nitrosating agents). Cosmetic / food grade packaging materials must be used.

### **4. Warnings**

No specific warnings required other than standard product usage instructions – for external use only – avoid direct eye contact – not for application to the mucous membranes or on broken skin. If irritation occurs discontinue use.

### **5. Normal and reasonably foreseeable use**

The product is intended for use as a product to be dissolved in bathing water (dilution factor of approximately 1000x). Rinse off product.

The product is intended for external use only and is not marketed for infant use, or for application to mucous membranes, broken skin or the eye area.

### **6. Target Population**

Marketed as products for general population – not specifically marketed for infant use.

### **7. Undesirable effects and serious undesirable effects**

None declared at the time of preparation of this document – a separate file must be made to record any declared incidences of undesirable effects – any serious undesirable effects must be notified to the competent authority and or local poison control agency.

### **8. Information on the cosmetic product / Proof of effects**

No specific medicinal claims are made. All constituents have been used widely in cosmetic preparations – no newly introduced or novel ingredients are used.



## 9. Product and Substance exposure characteristics

Exposure is by dermal absorption only under foreseeable conditions of use – a retention factor of 1 % has been used for all ingredients (rinse off products) and calculations are based on typical exposure values (RIVM report 320104001/2006 Cosmetics Fact Sheet. H.J. Bremmer, L.C.H. Prud'homme de Lodder, J.G.M. van Engelen).

	Bath salts / bombs	Potential frequency of application	g / day applied	Retention factor	g / day exposure	Surface area cm <sup>2</sup>	Systemic Exposure Dose (SED) mg/kgbw/day (based on 60 kg avg.)	Specific Exposure mg/cm <sup>2</sup>
	Maximum amount per application / g							
<b>CPNP Concentration Ranges</b>	25.0	1	25.0	1 %	0.25	16340	4.167	0.0153
A – >75% - ≤100%	25.000	1	25.000	1 %	0.25000	16340	4.167	0.0153
B – >50% - ≤75%	18.750	1	18.750	1 %	0.18750	16340	3.125	0.0115
C – >25% - ≤50%	12.500	1	12.500	1 %	0.12500	16340	2.083	0.0076
D – >10% - ≤25%	6.250	1	6.250	1 %	0.06250	16340	1.042	0.0038
E – >5% - ≤10%	2.500	1	2.500	1 %	0.02500	16340	0.417	0.0015
F – >1% - ≤5%	1.250	1	1.250	1 %	0.01250	16340	0.208	0.0008
G – >0.1% - ≤1%	0.250	1	0.250	1 %	0.00250	16340	0.042	0.0002
H – ≤0.1%	0.025	1	0.025	1 %	0.00025	16340	0.004	0.0000

## **10. Ingredient toxicity profiles and MOS calculations based on maximum percentages**

See attached Annex 1 - ED060323BBCPSR

# Safety Report Part B

<b>CSS Reference</b>	ED060323BBCPSR
<b>Product line</b>	Bath Bombs
<b>Product variants</b>	<ol style="list-style-type: none"><li>1. Lemon</li><li>2. Lemon and Eucalyptus</li><li>3. Rose Geranium</li><li>4. Sweet Orange</li><li>5. Lavender &amp; Chamomile</li><li>6. Ylang-Ylang, Lavender &amp; Amyris</li><li>7. Eucalyptus &amp; Peppermint</li><li>8. Tea Tree</li></ol>
<b>Product category</b>	Products to be dissolved in bathing water - rinse off products
<b>Responsible person</b>	EU: Angelina de Jesus Rocha Soares Bairro Sra da Graca porta 16, Roussas-Melgaco 4960-581 Portugal  UK: Sandra Estefania Dogan 5 Oxford Road, Southsea, PO51NP Portsmouth

## ***1. Assessment Conclusion***

This product meets the criteria for safety specified by the requirements of Article 3 of REGULATION (EC) No 1223/2009 and SCHEDULE 34 OF THE PRODUCT SAFETY AND METROLOGY ETC. (AMENDMENT ETC.) (EU EXIT) REGULATIONS 2019.

## ***2. Labelled Warnings and Instructions for Use***

No specific warnings required other than standard product usage instructions – for external use only – avoid direct eye contact – not for application to the mucous membranes or on broken skin. If irritation occurs discontinue use.

No other specific instructions for use are prescribed.

### **Allergen declaration**

In a rinse off product, any of the 26 allergens detailed in the European Commission Directive

2003/15/EC, that are present in the final product at a concentration greater than or equal to 0.01% must be declared on the product labelling.

### **3. Reasoning**

**Appropriate data were available for all components and a full review of this information has been made. The following information was reviewed as a minimum requirement.**

#### **Relating to the final product:**

Physical and chemical properties;  
Stability and reactivity;  
Microbiological purity;  
Packaging;  
Normal and reasonably foreseeable use;  
Target population.

#### **And specifically:**

The general toxicological profile of each ingredient used;  
The chemical structure of each ingredient;  
The level of exposure of each ingredient;  
The specific exposure characteristics of the areas on which the cosmetic product will be applied;  
The specific exposure characteristics of the class of individuals for whom the cosmetic product is intended.

**Margins of safety have been calculated for all components, with additional safety factors applied where appropriate due to the use of data from structurally related compounds.**

#### **CALCULATION OF THE MARGIN OF SAFETY**

Maximum amount of ingredient applied (mg) **I**  
Typical body weight (bw) of human (kg) **60**  
Maximum absorption through the skin (%) **A**  
Systemic Exposure Dose (mg/kgbw)  $SED = I \times A / 60$   
Margin of Safety **NOAEL / SED**

Where NOAEL equals no observed adverse effect level in mg/kgbw from appropriate repeated dose studies.

MOS values for all toxicologically significant components (other than those whose presence is governed / prescribed specifically by the Annexes of Regulation (EC) No 1223/2009) have been calculated and are satisfactory (MOS >100).

**Local toxicity** – phototoxic materials are not included in this formulation at levels of concern.  
**CMRs** – not included in this formulation.

**Nano materials** – not included in this formulation.

**Dermal irritants / sensitizers** – no significant exposure. Compatibility testing is generally advised if the product formulation uses ingredients at concentrations significantly greater than in previously well tolerated formulations. This formulation is very similar to other formulations that have been marketed previously, over a number of years without report of adverse reaction.

#### **Interaction of substances**

No significant interactions expected, based on a review of the chemical properties of the species included in this formulation. There are no components present that are likely to undergo spontaneous reaction – no species are present that have structural alerts with regard to carcinogenic activity.

#### **4. Assessor's credentials and approval of part B**

**Approved** - This product meets the criteria for safety specified by the requirements of Article 3 of REGULATION (EC) No 1223/2009 and SCHEDULE 34 OF THE PRODUCT SAFETY AND METROLOGY ETC. (AMENDMENT ETC.) (EU EXIT) REGULATIONS 2019.

06/03/2023

 <p>Joanne Priestley CBiol MRSB</p> <p>Managing Director, Safety Assessor</p> <p><input checked="" type="checkbox"/></p>	 <p>Simas Kazlauskas CBiol MRSB</p> <p>Safety Assessor</p> <p><input checked="" type="checkbox"/></p>
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On behalf of Cosmetic Safety Solutions Ltd, Reg. 13922324 DL14 6HE, England

**Cosmetic Safety Solutions Ltd.**

**Westlea Avenue Bishop Auckland, DL14 6HE, England**

**Safety Assessor Information**

**Joanne Priestley CBiol MRSB Bsc (Hons)**

Email info@cosmeticsafetyassessment.com

**- Qualifications**

BSc (Hons) 1st Class (Biological Science)

Chartered Biologist (CBiol)

Full member of the Royal Society of Biology (MRSB)

**- Experience**

11 years in cosmetic product safety, of which cosmetic toxicology forms at least 8 years.

3 years in cardiovascular research and delivery of physiology seminars to undergraduates.

**Simas Kazlauskas CBiol MRSB**

Email lietuva@cosmeticsafetyassessment.com

**- Qualifications**

Bachelor's degree in Biochemistry (Vilnius University)

Master's degree in Biochemistry (Vilnius University)

Chartered Biologist (CBiol)

Full member of the Royal Society of Biology (MRSB)

**- Experience**

5+ years in cosmetic product safety and cosmetic toxicology.

3 years in applied enzymology (lipase) research.

This is to certify that

**Joanne Priestley**

has been admitted as a

**Chartered Biologist**

by resolution of the Council

Membership Number P0115871  
Election Date 2 July 2015



Dr Mark Downs CSci FRSB  
Chief Executive



Incorporated by Royal Charter  
Registered Charity No: 277981

This is to certify that

**Simas Kazlauskas**

has been admitted as a

**Chartered Biologist**

by resolution of the Council

Membership Number P0130074  
Election Date 6 April 2018



Dr Mark Downs CSci FRSB  
Chief Executive



Incorporated by Royal Charter  
Registered Charity No: 277981