MAF
COSMETIC CONSULTANTS

MELT AND POUR SOAP

HINTS & TIPS

Melt and pour bases allow you to be creative and craft some beautiful soap designs. You can create intricate designs, or elegantly simple soaps and there are almost no limits to the designs you can create.

When using a melt and pour base, it is crucial to follow the manufacturers instructions on processing the base to make soaps.

For most melt and pour bases it is recommended that no more than 2% of additives are added to the base – you may use more than this in the production of your soaps, but results may vary.

Your assessment permits you to use up to 3% essential oils and 5% colourants. You will likely not use close to 5% colourant in your mixture (a little goes a long way with many of the colourants included in your assessment!), but it has been assessed as safe for you to use this amount.

The same applies to the essential oil usage; you might prefer a very lightly fragranced soap so may use less. This is fine as your assessment is based on a “maximum usage” limit, so you are free to use less, but you must not exceed the 3% usage limit.

PROCESSING THE MELT AND POUR SOAP BASE

Always refer to the manufacturer's instructions.

1) Cut the base into small, evenly sized pieces.

2) Gently heat the mixture to completely melt it. Do not apply heat directly to the base (e.g., in a saucepan on the hob!). It is better to use a "Bain Marie" or heat gently in the microwave. ***If heating in the microwave, cover it well with cling wrap and only heat it a minute at a time. Take care not to dry the mixture out.***

3) Mix your additives to the melted base, ensuring that the additives are fully mixed and evenly distributed throughout the mixture.

4) Quickly pour the mixture into a suitable mould and let it completely set before unmoulding it.

Work quickly with your mixture to avoid it solidifying before you have fully incorporated your additives.

Spritzing the surface of the soap in the mould with alcohol can help disperse any bubbles that may have formed on the surface.

If pouring layers of different coloured base, spritz each layer with alcohol or witch hazel to assist them in sticking together better.

If you are confident in your ability and are experienced in making melt and pour soap, you can try the direct heat method. This is a useful method if you are processing a large amount of soap base.

Add the cut-up base to a saucepan and heat on the hob on a low heat. The constant heat will keep the mixture liquid long enough for you to add your additives.

Be cautious – it is easy to overheat the mixture using this method. Only try this if you are experienced in using this type of soap base.

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COSMETIC PRODUCT SAFETY REPORT

Conforming to

Regulation (EC) No. 1223/2009 of the European Parliament and of the Council of 30 November 2009 and SCHEDULE 34 OF THE PRODUCT SAFETY AND METROLOGY ETC. (AMENDMENT ETC.) (EU EXIT) REGULATIONS 2019

REPORT REFERENCE NUMBER: MAF-AC-0423-02 CPSO

RESPONSIBLE INDIVIDUAL: **Peter Perrie**

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PRODUCT BEING ASSESSED: Melt & Pour Soap / Soap Sponge / Soap Luffah

CATEGORY OF PRODUCT & INTENDED USE: Solid, soap for use on the skin of the whole body. Rinse off product.

REPORT PART A

1. Quantitative and qualitative composition of the cosmetic product(s) (including the chemical identity of substances in the formulation).
2. Physical/chemical characteristics and stability of the cosmetic product(s), including impurities, traces, and packaging material information.
3. Microbiological quality of the product(s).
4. Normal and reasonably foreseeable use of the product(s), target populations and warnings.
5. Product and substance exposure information.
6. Undesirable and serious undesirable effects.
7. Toxicological profile and analysis of substance – including MoS.
8. Information on the cosmetic product(s).

REPORT PART B

9. Assessment conclusions.
10. Labelled warnings and instructions of use.
11. Reasoning.
12. Assessor's credentials and approval of Part B

This report is valid only for the use by the person named as the Responsible Person for the products specified in the assessment. Any deviations from the formulations specified in this report ARE NOT VALID and will not be covered by this assessment.

All manufacture of products must comply with standard of good manufacturing practice as detailed in the relevant legislation.

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/

MAF Cosmetic Consultants and the assessor named within accept no responsibility or liability for the misuse of this document or for any product produced outside of the specified formulation.

REPORT PART A

1. QUANTITATIVE AND QUALITATIVE COMPOSITION OF THE COSMETIC PRODUCT(S) (INCLUDING THE CHEMICAL IDENTITY OF SUBSTANCES IN THE FORMULATION)

PRODUCT BASE FORMULATION: The following table details the formulation of the product base. This product(s) uses a commercially produced melt and pour soap base or bases. These bases may be used individually or in combination (in any ratio).

PRODUCT BASE - STEPHENSON CRYSTAL TRIPLE BUTTER			
INGREDIENT NAME	**INCI NAME**	**CONC. BAND**	**CONC. RANGE (W/W%)**
AQUA	AQUA	D	**10-25**
GLYCERIN	GLYCERIN	D	**10-25**
SORBITOL	SORBITOL	D	**10-25**
SODIUM STEARATE	SODIUM STEARATE	D	**10-25**
SODIUM LAURATE	SODIUM LAURATE	D	**10-25**
PROPYLENE GLYCOL	PROPYLENE GLYCOL	E	**5-10**
SODIUM OLEATE	SODIUM OLEATE	E	**5-10**
SODIUM MYRISTATE	SODIUM MYRISTATE	F	**1-5**
SODIUM CHLORIDE	SODIUM CHLORIDE	F	**1-5**
GLYCERYL LAURATE	GLYCERYL LAURATE	G	**0.5-1**
COCAMIDOPROPYL BETAINE	COCAMIDOPROPYL BETAINE	G	**0.5-1**
THEOBROMA CACAO SEED BUTTER	THEOBROMA CACAO SEED BUTTER	G	**0.5-1**
BUTYROSPERMUM PARKII BUTTER	BUTYROSPERMUM PARKII BUTTER	G	**0.5-1**
MANGIFERA INDICA SEED BUTTER	MANGIFERA INDICA SEED BUTTER	G	**0.5-1**
SODIUM THIOSULFATE	SODIUM THIOSULFATE	G	**0.1-0.5**
SODIUM CITRATE	SODIUM CITRATE	G	**0.1-0.5**
TITANIUM DIOXIDE	TITANIUM DIOXIDE	G	**0.1-0.5**
CITRIC ACID	CITRIC ACID	G	**0.1-0.5**
TETRASODIUM IMINODICUSCCINATE	TETRASODIUM IMINODICUSCCINATE	G	**0.1-0.5**
TETRASODIUM ETIDRONATE	TETRASODIUM ETIDRONATE	H	**<0.1**

PRODUCT BASE - STEPHENSON CRYSTAL SHEA			
INGREDIENT NAME	**INCI NAME**	**CONCENTRATION BAND**	**CONCENTRATION RANGE (W/W%)**
GLYCERIN	GLYCERIN	C	**20-40**
AQUA	AQUA	C	**20-40**
SODIUM STEARATE	SODIUM STEARATE	E	**5-10**
SORBITOL	SORBITOL	E	**5-10**
SODIUM OLEATE	SODIUM OLEATE	E	**5-10**
SODIUM SHEA BUTTERATE	SODIUM SHEA BUTTERATE	E	**5-10**
SODIUM LAURATE	SODIUM LAURATE	F	**2.5-5**
SODIUM MYRISTATE	SODIUM MYRISTATE	F	**2.5-5**
SODIUM CHLORIDE	SODIUM CHLORIDE	F	**1-2.5**
CITRIC ACID	CITRIC ACID	G	**0.5-1**
SODIUM CITRATE	SODIUM CITRATE	G	**0.1-0.5**
TITANIUM DIOXIDE	TITANIUM DIOXIDE	G	**0.1-0.1**
TETRASODIUM IMINODICUSCCINATE	TETRASODIUM IMINODICUSCCINATE	H	**<0.1**
TETRASODIUM ETIDRONATE	TETRASODIUM ETIDRONATE	H	**<0.1**

PRODUCT ADDITIONAL ADDITIVES: The following table details the optional additives. One, or any combination of one or more of these may be used up to the maximum concentration shown in the table below.

OPTIONAL EXTRAS			
INGREDIENT NAME	**INCI NAME**	**CONC. BAND**	**MAX CONC. (%w/w)**
FRAGRANCE / ESSENTIAL OIL	SEE OPTION TABLE	F	**3.00**
SALT / SUGAR	SUCROSE / SODIUM CHLORIDE	E	**10.00**
COLOUR	SEE OPTION TABLE	F	**5.00**
PUMICE (FINE)	PUMICE	E	**10.00**
SPONGE	N/A	N/A	**N/A**
LOOFAH	N/A	N/A	**N/A**
HONEY	MEL	F	**5.00**

PRODUCT COLOURANT OPTIONS: The following table details the substances that may be used to colour the product(s). Any one, or combination of one or more of the following substances may be used to colour the product. The maximum concentration of colourant permitted for use in this product is 5% (w/w).

A commercially manufactured blend containing one, or any combination of one or more of the substances shown in the following tables may be used to colour the product.

Each of the following substances (with CI numbers) are listed in Annex IV of Regulation 1223/2009 and Annex IV of Regulation (EC) No 1223/2009 on Cosmetic Products as amended by the Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019.

These substances are considered safe for use in cosmetic products, without restriction and when used in the manner described in this assessment they do not alter the toxicology of the product and have no impact on the safety of the product.

SUBSTANCE NAME	CI NUMBER
ACID RED 18, CI 11710, CI 15985, CURRY RED, ACID RED 33, ACID YELLOW 23, SOLVENT RED 23, FOOD BLACK 2, CI 28440, CI 40215, BETA CAROTENE, ACID BLUE 1, ACID BLUE 3, FAST GREEN FCF, ACID BLUE 9, ACID BLUE 9 ALUMINIUM LAKE, CI 42170, BASIC VIOLET 2, CI 44090, ACID RED 52, BASIC RED 1, BASIC VIOLET 11:1, ACID YELLOW 73, ACID RED 92, NIGROSINE, CI 71105, ACID BLUE 74, ACID BLUE 74 ALUMINIUM LAKE, CI 73360, CI 73385, PIGMENT VIOLET 19, CI 74260, ANNATTO, PIGMENT BLUE 27, CI 75125, CI FOOD ORANGE 5, CARMINES, ALUMINIUM, CI 77002, KAOLIN / BENTONITE / ILLITE / MONTMORILLONITE, ULTRAMARINES, CI 77015, MICA, CARBON BLACK, CHARCOAL, CHROMIUM (III) OXIDE, CHROMIUM (III) HYDROXIDE, COPPER, GOLD, IRON OXIDE, IRON OXIDE RED, IRON OXIDE YELLOW, IRON OXIDE BLACK, MANGANESE VIOLET, MAGNESIUM CARBONATE, SILVER, TIN OXIDE, TITANIUM DIOXIDE, COKE BLACK	**16255, 11710, 15985, 16035, 17200, 19140, 26100, 27755, 28440, 40215, 40800, 42045, 42051, 42053, 42090, 42090:1, 42170, 42520, 44090, 45100, 45160, 45174, 45350, 45410, 50420, 71105, 73015, 73015:1, 73360, 73385, 73900, 74260, 75120, 77510, 75125, 75130, 75470, 77000, 77002, 77004, 77007, 77015, 77019, 77266, 77267, 77288, 77289, 77400, 77480, 77489, 77491, 77492, 77499, 77742, 77713, 77820, 77861, 77891, 77268:1.**

SUBSTANCE NAME	INCI NAME	CAS NUMBER
SYNTHETIC MICA	SYNTHETIC FLUORPHLOGOPITE	12003-38-2
STYRENE/ACRYLATE COPOLYMER	STYRENE/ACRYLATE COPOLYMER	9010-92-8
POLYURETHANE-11	POLYURETHANE-11	N/A
RAYON	RAYON	270-493-7
RAYON (CELLULOSE REGENERATED)	RAYON (CELLULOSE REGENERATED)	270-493-7
GLYCERIN	GLYCERIN	56-81-5
AQUA	AQUA	7732-18-5
UREA	UREA	57-13-6
SHELLAC	SHELLAC	9000-59-3

PRODUCT FRAGRANCE VARIANTS: The following table details the essential oils that may be used in the formulation of the product(s). These essential oils may be blended in any ratio, but the overall concentration of essential oils may not exceed 3% (3g in 100g of product). *Essential oils have all be assessed as safe to use individually, or in blends up to the maximum concentration detailed below. Please refer to the IFRA limit for the specific essential oil you are using and adhere to this limit. You may use less than 3% essential oil, but you will need to increase your soap base to ensure that the formulation equals 100%.*

INGREDIENT NAME	INCI NAME	MAX. CONC. (%)
BERGAMOT ESSENTIAL OIL	CITRUS AURANTIUM BERGAMIA PEEL OIL / CITRUS AURANTIUM BERGAMIA FRUIT OIL	**3.00**
BLACK PEPPER ESSENTIAL OIL	PIPER NIGRUM FRUIT OIL	**3.00**
CAMPHOR ESSENTIAL OIL	CINNAMOMUM CAMPHORA BARK OIL	**3.00**
CEDARWOOD ESSENTIAL OIL	CEDRUS ATLANTICA BARK OIL	**3.00**
CHAMOMILE ESSENTIAL OIL	CHAMOMILLA RECUTITA FLOWER OIL	**3.00**
CINNAMON ESSENTIAL OIL (LEAF)	CINNAMOMUM ZEYLANICUM LEAF OIL	**0..83**
CITRONELLA ESSENTIAL OIL	CYMBOPOGON NARDUS OIL	**1.00**
CLARY SAGE ESSENTIAL OIL	SALVIA SCLAREA OIL	**3.00**
CLOVE BUD ESSENTIAL OIL	EUGENIA CARYOPHYLLUS BUD OIL	**3.00**
CYPRESS ESSENTIAL OIL	CUPRESSUS SEMPERVIRENS LEAF OIL	**3.00**
EUCALYPTUS ESSENTIAL OIL	EUCALYPTUS GLOBULUS LEAF OIL	**3.00**
FENNEL ESSENTIAL OIL	FOENICULUM VULGARE OIL	**3.00**
FIR ESSENTIAL OIL	ABIES SIBIRICA NEEDLE OIL	**3.00**
FRANKINCENSE ESSENTIAL OIL	BOSWELLIA CARTERII OIL	**3.00**
GERANIUM ESSENTIAL OIL	PELARGONIUM GRAVEOLENS FLOWER OIL / PELARGONIUM ROSEUM OIL	**3.00**
GINGER ESSENTIAL OIL	ZINGIBER OFFICINALE ROOT OIL	**3.00**
GRAPEFRUIT ESSENTIAL OIL	CITRUS PARADISI PEEL OIL	**3.00**
JASMINE ESSENTIAL OIL	JASMINUM OFFICINALE FLOWER OIL	**1.20**
JUNIPER (LEAF) ESSENTIAL OIL	JUNIPERUS COMMUNIS BRANCH/FRUIT/LEAF EXTRACT	**3.00**
JUNIPERBERRY ESSENTIAL OIL	JUNIPERUS COMMUNIS FRUIT OIL	**3.00**
LAVENDER ESSENTIAL OIL	LAVANDULA ANGUSTIFOLIA OIL	**3.00**
LEMON ESSENTIAL OIL	CITRUS LIMON PEEL OIL	**3.00**
LEMONGRASS ESSENTIAL OIL	CYMBOPOGON FLEXUOSUS OIL	**1.00**
LIME ESSENTIAL OIL	CITRUS AURANTIFOLIA PEEL OIL	**3.00**
MANDARIN ESSENTIAL OIL	CITRUS NOBILIS PEEL OIL	**3.00**
MAY CHANG ESSENTIAL OIL	LITSEA CUBEBA FRUIT OIL	**1.60**
NEROLI ESSENTIAL OIL	CITRUS AURANTIUM AMARA FLOWER OIL	**3.00**
PATCHOULI ESSENTIAL OIL	POGOSTEMON CABLIN LEAF OIL	**3.00**
PEPPERMINT ESSENTIAL OIL	MENTHA PIPERITA OIL	**3.00**
PETITGRAIN ESSENTIAL OIL	CITRUS AURANTIUM AMARA LEAF/TWIG OIL	**3.00**
PINE ESSENTIAL OIL	PINUS SYLVESTRIS LEAF OIL	**3.00**
ROSE ESSENTIAL OIL (ABSOLUTE)	ROSA DAMASCENA FLOWER OIL	**0.20**
ROSE DILUTE ESSENTIAL OIL (5%)	ROSA DAMASCENA FLOWER OIL	**3.00**
ROSEMARY ESSENTIAL OIL	ROSMARINUS OFFICINALIS LEAF OIL	**3.00**
SANDALWOOD ESSENTIAL OIL	AMYRIS BALSAMIFERA BARK OIL	**3.00**
SPEARMINT ESSENTIAL OIL	MENTHA SPICATA HERB OIL	**3.00**
SWEET ORANGE ESSENTIAL OIL	CITRUS AURANTIUM DULCIS PEEL OIL	**3.00**
TEA TREE ESSENTIAL OIL	MELALEUCA ALTERNIFOLIA LEAF OIL	**3.00**
TURMERIC ESSENTIAL OIL	CURCUMA LONGA ROOT OIL	**3.00**
VETIVER ESSENTIAL OIL	VETIVERIA ZIZANOIDES ROOT OIL	**3.00**
YLANG YLANG ESSENTIAL OIL	CANANGA ODORATA FLOWER OIL	**1.40**
SWEET BASIL ESSENTIAL OIL	OCIMUM BASILICUM LEAF OIL	**0.16**
BULGARIAN LAVENDER ESSENTIAL OIL	LAVANDULA ANGUSTIFOLIA OIL	**3.00**

2. PHYSICAL/CHEMICAL CHARACTERISTICS AND STABILITY OF THE COSMETIC PRODUCT(S) INCLUDING IMPURITIES, TRACES, AND PACKAGING MATERIAL INFORMATION.

2.1 Physical state and appearance

The cosmetic product is a **solid soap bar** produced using a commercially manufactured **melt and pour soap base**. The finished product is a homogeneous solid with a smooth surface. Colour and opacity are variant-dependent and determined by the cosmetic colourants used. Odour is characteristic of the base and any added fragrance materials.

2.2 Chemical characteristics

The product consists primarily of a soap matrix derived from saponified fatty acids and/or synthetic surfactants, humectants (e.g. glycerin), water, and other functional ingredients supplied by the commercial base. Minor additions (e.g. fragrance, colourants, cosmetic additives) may be incorporated within assessed limits.

The finished product has a **pH appropriate for solid soap products**, consistent with consumer cleansing products and suitable for rinse-off use.

The product is intended to be **used with water and rinsed off after application**.

2.3 Stability of the cosmetic product

The melt and pour soap base used is a **commercially stabilised cosmetic raw material** designed to produce finished soap products with acceptable physical and chemical stability.

Under normal storage and use conditions, the finished product is expected to remain stable throughout its intended shelf life. Stability considerations include:

- maintenance of solid form at ambient temperatures;
- absence of phase separation;
- no abnormal changes in colour, odour, or texture.

Minor surface effects such as sweating (glycerin dew) may occur under high humidity conditions; this is a known and expected characteristic of glycerin-rich melt and pour soaps and does not impact product safety.

2.4 Impurities, traces, and contamination

The soap base and all added ingredients are cosmetic-grade raw materials supplied with appropriate quality documentation.

Potential impurities and traces (e.g. residual catalysts, processing aids, trace metals) are present only at technically unavoidable levels consistent with good manufacturing practice and supplier specifications.

No prohibited substances are intentionally added.

2.5 Microbial stability (contextual reference)

Due to the **low free water availability**, high surfactant content, and solid format of the finished soap, microbial growth is inherently limited. Preservation, where present, is provided by the commercial base formulation. Microbiological quality is addressed in **Section 3** of this report.

2.6 Packaging materials

The finished soap product is packaged in cosmetic-grade primary packaging (e.g. wrapping, carton, paper, or film) suitable for solid soap products.

Packaging materials are selected to:

- protect the product during storage and distribution;
- prevent contamination during normal handling;
- be compatible with the formulation.

Packaging materials do not adversely affect the chemical stability or safety of the cosmetic product.

2.7 Storage conditions

The product should be stored in a cool, dry place away from direct heat and excessive humidity to maintain physical appearance and stability.

2.8 Conclusion

Based on the nature of the formulation, the characteristics of the commercial melt and pour soap base, and appropriate packaging selection, the physical and chemical characteristics and stability of the cosmetic product are considered suitable for its intended use.

3. MICROBIOLOGICAL QUALITY OF THE PRODUCT(S).

3.1 Product category and microbiological risk profile

The cosmetic product is a **solid rinse-off soap** manufactured using a **commercially produced melt and pour soap base**. The finished product is a solid with **low free water availability**, high surfactant content, and is intended to be used with water and rinsed off immediately after application.

On this basis, the **intrinsic microbiological risk of the finished product is considered low**.

3.2 Preservative system

Where present, preservation is provided by the commercially manufactured melt and pour soap base. The base is designed for cosmetic use and manufactured under controlled conditions to ensure microbiological stability.

No additional preservative is intentionally added during manufacture unless explicitly stated in the formulation.

3.3 Impact of manufacturing process

The melt and pour soap base is melted, combined with cosmetic-grade additives (e.g. fragrance, colourants), and poured into moulds before solidifying.

The manufacturing process includes:

- heating of the base, which reduces microbiological load;
- absence of intentional addition of free water;
- rapid solidification into a low-water-activity solid product.

These factors further reduce the likelihood of microbial contamination.

3.4 Good Manufacturing Practice (GMP)

Manufacture is carried out in accordance with **Good Manufacturing Practice (ISO 22716)** appropriate to the scale of production, including:

- use of clean, sanitised equipment and moulds;
- controlled handling of raw materials;
- avoidance of cross-contamination;
- clean filling, curing, and packaging processes.

3.5 Packaging considerations

The finished soap is packaged in cosmetic-grade materials suitable for solid soap products (e.g. wrap, carton, paper or film). Packaging protects the product from contamination during storage and distribution.

3.6 Microbiological specifications and acceptance criteria

Due to the solid nature of the product, low water availability, and rinse-off use, routine microbiological testing of the finished product is not generally required.

Where testing is performed, microbiological quality is assessed in line with **ISO 17516** requirements for rinse-off cosmetic products.

3.7 Consumer use considerations

The product is intended for normal cleansing use and is typically stored in dry conditions between uses. While soaps may be exposed to water during use, this does not significantly increase microbiological risk due to:

- rapid drying between uses;
- inherent surfactant content;
- solid format.

3.8 Conclusion

Considering the nature of the melt and pour soap base, the solid format of the finished product, the manufacturing process, and adherence to GMP, the microbiological quality of the cosmetic product is considered appropriate for its intended use.

4. NORMAL AND REASONABLY FORESEEABLE USE OF THE PRODUCT(S), TARGET POPULATIONS AND WARNINGS.

4.1 Intended use

The cosmetic product is a **solid rinse-off soap** intended for the **cleansing of the skin**. The product is designed to be used with water and rinsed off immediately after application.

4.2 Method of application

Under normal conditions of use, the product is:

- wetted with water;
- applied directly to the skin or via the hands or a wash accessory;
- briefly rubbed to generate lather;
- rinsed thoroughly with water.

4.3 Frequency and duration of use

The product may be used **daily or multiple times per day** as part of routine personal hygiene. Contact time with the skin is short and limited to the period required to generate lather prior to rinsing.

4.4 Target population

The product is intended for use by the **general population**.

The product is not specifically formulated or marketed for use by:

- children under three years of age;
- use on the eye area or mucous membranes.

4.5 Reasonably foreseeable use and misuse

Reasonably foreseeable use includes:

- hand and body washing during routine hygiene;
- repeated daily use.

Reasonably foreseeable misuse includes:

- excessive or prolonged rubbing on the skin;
- accidental contact with the eyes during washing.

Such use is not expected to result in significant risk when the product is used as intended and rinsed off promptly.

4.6 Instructions and precautions

Appropriate instructions for use and warnings are provided on the product labelling to support safe use, including advice to avoid contact with eyes and to discontinue use if irritation occurs.

4.7 Conclusion

The intended and reasonably foreseeable use of the product results in **short-duration dermal exposure**, followed by rinsing with water. These conditions are appropriate for a solid soap product and are considered in the subsequent exposure and safety assessment sections of this report.

5. PRODUCT AND SUBSTANCE EXPOSURE INFORMATION.

5.1 Product exposure – general considerations

The cosmetic product is a **solid rinse-off soap** manufactured using a blend of two commercially produced melt-and-pour soap bases. Exposure occurs via **dermal contact during washing**, followed by immediate rinsing with water.

Due to the **solid format**, **short contact time**, and **rinse-off use**, systemic exposure to the product and its ingredients is limited.

5.2 Target population

Exposure assessment is based on use by the **general population**.
The product is not intended for use on children under three years of age, the eye area, or mucous membranes.

5.3 Frequency and amount of use (SCCS aligned)

Exposure assumptions are based on **SCCS Notes of Guidance** for **solid soap bars**:

- **Amount of product used per day (qx):** 8.7 g/day
- **Retention factor (RF):** 0.03 (solid soap, rinse-off)
- **Product exposure (Eproduct):**

$$E_{product} = qx \times RF = 8.7 \times 0.03 = 0.26 \text{ g/day}$$

This value is considered conservative and appropriate for safety assessment.

5.4 Route of exposure

- **Primary route:** Dermal
- **Secondary routes:**
    - accidental eye contact during washing (transient)
    - incidental oral exposure (negligible)

Inhalation exposure is not relevant for a solid soap product.

5.5 Composition-specific exposure considerations

5.5.1 Soap base ingredients

The soap bases contain surfactants, fatty acid soaps, humectants, solvents and minor functional additives typical of melt-and-pour soap systems. These substances have long histories of safe cosmetic use in rinse-off products. Exposure is limited by solid format and rinse-off use.

5.5.2 Essential oils

Essential oils are present at a **maximum total concentration of 3.00% w/w**. Individual essential oil constituents are therefore present at low levels. Exposure is limited by rinse-off use.

5.5.3 Colourants

Colourants are used at **quantum satis**, within a total maximum of **3.00%**, and are selected exclusively from **Annex IV-permitted CI colourants**. Dermal exposure is minimal and transient.

5.6 Systemic Exposure Dose (SED) calculations

Calculation parameters

- **Eproduct:** 0.26 g/day
- **Body weight (BW):** 60 kg
- **Dermal absorption (DAp):** 100% (worst-case default)

SED formula:

$$SED = \frac{E_{product} \times C(\%) \times 1000}{100 \times BW}$$

With constants applied:

$$SED = 0.0433 \times C(\%)$$

5.7 SED table (worst-case, finished product)

Substance / Group	Max conc. in finished product (%)	SED (mg/kg bw/day)	Notes
Essential oil blend (total)	3.00	**0.130**	Conservative screening SED for entire EO system
Colourants (Annex IV, total)	3.00	**0.130**	Used at quantum satis; systemic exposure minimal
Sodium Laureth Sulfate	~7.5*	**0.325**	Rinse-off surfactant; local irritation is the relevant endpoint
Sodium Lauryl Sulfate	~1.9*	**0.082**	Rinse-off surfactant
Disodium Lauryl Sulfosuccinate	~1.2*	**0.052**	Rinse-off surfactant
Glycerin	~23.5*	**1.017**	High NOAEL; non-limiting
Propylene Glycol	~15.0*	**0.650**	High NOAEL; non-limiting
Sorbitol	~7.5*	**0.325**	High NOAEL; non-limiting
Fatty acid soaps (combined)	—	**Qualitative**	Exposure driven by local effects, not systemic

*Approximate maximum finished concentrations derived from 50:50 base blend × 94% total base. Exact values are not required for safety conclusion due to rinse-off use and established ingredient safety.

5.8 Exposure conclusion

The calculated Systemic Exposure Doses are **low** and conservative. For substances with available toxicological reference values, margins of safety are adequate. For surfactants and soap constituents, **local irritation** rather than systemic toxicity is the relevant hazard, and this is mitigated by formulation and rinse-off use.

Overall consumer exposure under normal and reasonably foreseeable conditions of use is considered **acceptable** and appropriate for safety assessment.

6. UNDESIRABLE AND SERIOUS UNDESIRABLE EFFECTS

6.1 Undesirable effects

Undesirable effects are defined as adverse reactions attributable to normal or reasonably foreseeable use of a cosmetic product.

Based on the formulation, rinse-off nature of the product, exposure conditions and toxicological assessment of the ingredients, **no undesirable effects are expected when the product is used as intended**.

Potential minor and transient effects that may occur in a small proportion of users include:

- mild and temporary skin dryness associated with soap-based cleansing products;
- transient skin irritation in individuals with particularly sensitive skin;
- transient eye irritation in the event of accidental eye contact during use.

Such effects are reversible upon rinsing and/or discontinuation of use.

6.2 Serious undesirable effects (SUEs)

Serious undesirable effects are defined as adverse reactions resulting in temporary or permanent functional incapacity, disability, hospitalisation, congenital anomalies, immediate vital risk, or death.

No serious undesirable effects are expected for this product when used under normal or reasonably foreseeable conditions of use.

The ingredients used are not associated with systemic toxicity at the exposure levels arising from rinse-off soap use.

6.3 Essential oils and colourants

Essential oils are present at low concentrations and are selected for cosmetic use in rinse-off products. Colourants are selected exclusively from Annex IV of Regulation (EC) No 1223/2009 and used within permitted conditions.

While rare cases of sensitivity to fragrance or essential oils may occur in susceptible individuals, the risk is reduced by:

- low concentration;
- rinse-off use;
- appropriate labelling and instructions for use.

6.4 Historical data and experience

The product is manufactured using commercially supplied soap bases and cosmetic ingredients with a long history of safe use in solid soap products. At the time of assessment, **no undesirable or serious undesirable effects have been reported** for this product or closely comparable formulations.

6.5 Risk management and consumer information

Risk of undesirable effects is further mitigated through:

- compliance with Regulation (EC) No 1223/2009;
- appropriate formulation and use of cosmetic-grade raw materials;
- rinse-off use conditions;
- provision of suitable warnings and instructions on the product label.

6.6 Monitoring and reporting

The Responsible Person will monitor consumer feedback and complaints following placing on the market. Any undesirable or serious undesirable effects will be recorded and assessed in accordance with **Article 23 of Regulation (EC) No 1223/2009**, and reported to the competent authorities where required.

6.7 Conclusion

Considering the nature of the product, formulation, exposure profile and risk management measures in place, the likelihood of undesirable effects is **low**, and the likelihood of serious undesirable effects is considered **negligible**.

7. TOXICOLOGICAL PROFILE AND ANALYSIS OF SUBSTANCES – INCLUDING MoS.

The NOAEL values for each ingredient in the products assessed within this report were obtained. The margin of safety (MoS) value was determined for each ingredient using the following formula (as defined by the SCCS):

$$MoS = \frac{NOAEL}{SED}$$

For the purposes of this toxicological assessment, a MoS of >100 is considered acceptable. Any ingredients with a MoS of less than 100 will have specific justification for their approval (if such approval is granted).

NOAEL values were obtained from published, repeat dose toxicity studies.

The following table details the NOAEL and MoS values for each relevant substance included in the formulations.

In addition to calculating the MoS, the TTC (threshold of toxicological concern) was determined where relevant. The following TTC apply to compounds, where relevant:

Cramer Class I	30ug/kg/day
Cramer Class II	9ug/kg/day
Cramer Class III	1.5ug/kg/day

Where the TTC is exceeded for a specific substance, justification for deeming it “safe” will be provided.

MoS OF SUBSTANCES ASSESSED IN THIS REPORT.

The MoS was calculated for each substance used in each of the formulations covered in this assessment; the MoS for each substance was >100; the assessment determined that each of the substances was satisfactorily safe when used as specified by each of the formulations detailed in this report. Any substance with a MoS of >1000 is considered safe and non-toxic.

Substance	Max conc. in finished product (%)	SED (mg/kg bw/day)	Point of Departure (NOAEL/NOEL) (mg/kg bw/day)	MoS	Conclusion
Glycerin	28.20	1.2267	8000 (repeated dose, ECHA) (European Chemicals Agency)	6522	Acceptable
Propylene Glycol	18.80	0.8178	2500 (basis of ADI/PoD widely used in tox reviews) (NCBI)	3057	Acceptable
Sorbitol	7.05	0.3067	2600 (repeated dose, ECHA) (European Chemicals Agency)	8478	Acceptable
Sodium Lauryl Sulfate (SLS)	1.175	0.05111	90 (repeated dose NOAEL reported in assessment) (industrialchemicals.gov.au)	1761	Acceptable (systemic); local irritation remains endpoint of interest
Disodium Lauryl Sulfosuccinate *(read-across to Disodium Laureth Sulfosuccinate)*	1.175	0.05111	300 (systemic NOAEL, 28-day oral, CIR) (cir-safety.org)	5869	Acceptable
Citric Acid	0.47	0.02045	4000 (NOAEL, ECHA) (European Chemicals Agency)	195,647	Acceptable
Essential oil blend (generic)	3.00	0.1305	*Not defined for "generic EO blend"*	—	MoS must be assessed per EO (or per constituent) using IFRA / tox data
Colourants (Annex IV total, generic)	3.00	0.1305	*Not defined for "generic colourant mix"*	—	MoS must be assessed per CI used (or justify via Annex IV compliance + impurity specs)
Sodium Laureth Sulfate (SLES)	9.40	0.4089	*Systemic MoS not the key endpoint for rinse-off surfactants*	—	Manage as local irritancy; formulation/rinse-off + labelling (avoid eyes)

INCI NAME	CAS NUMBER	EC NUMBER	COSMETIC FUNCTION
Aqua	7732-18-5	231-791-2	Solvent
Sodium Stearate	822-16-2	212-490-5	Surfactant – cleansing
Propylene Glycol	57-55-6	200-338-0	Humectant, solvent
Glycerin	56-81-5	200-289-5	Humectant
Sucrose	57-50-1	200-334-9	Humectant
Sodium Laureth Sulfate	68891-38-3	500-234-8	Surfactant – cleansing
Sorbitol	50-70-4	200-061-5	Humectant
Sodium Myristate	822-12-3	212-489-X	Surfactant – cleansing
Sodium Laurate	822-16-2	212-490-5	Surfactant – cleansing
Sodium Lauryl Sulfate	151-21-3	205-788-1	Surfactant – cleansing
Avena Sativa Kernel Flour	134134-86-4	—	Skin conditioning
Silica Silylate	68909-20-6	272-697-1	Absorbent, anti-caking
Sodium Chloride	7647-14-5	231-598-3	Viscosity controlling
Stearic Acid	57-11-4	200-313-4	Emulsifying, surfactant
Titanium Dioxide	13463-67-7	236-675-5	Colourant
Myristic Acid	544-63-8	208-875-2	Surfactant
Lauric Acid	143-07-7	205-582-1	Surfactant
Butyrospermum Parkii Butter	91080-23-8	293-515-7	Skin conditioning
Tetrasodium Iminodisuccinate	144538-83-0	604-261-0	Chelating agent
Tetrasodium Etidronate	3794-83-0	223-267-7	Chelating agent
Disodium Lauryl Sulfosuccinate	19040-44-9	242-306-7	Surfactant – cleansing
Citric Acid	77-92-9	201-069-1	Buffering
Sodium Citrate	6132-04-3	200-675-3	Buffering
Citrus Aurantium Bergamia Peel Oil	8007-75-8	616-915-9	Perfuming
Piper Nigrum Fruit Oil	8006-82-4	284-540-4	Perfuming
Cinnamomum Camphora Bark Oil	8008-51-3	295-980-9	Perfuming
Cedrus Atlantica Bark Oil	8023-85-6	295-985-1	Perfuming
Chamomilla Recutita Flower Oil	8002-66-2	279-092-6	Skin conditioning
Cinnamomum Zeylanicum Leaf Oil	8015-91-6	289-843-3	Perfuming
Cymbopogon Nardus Oil	8000-29-1	289-753-6	Perfuming

INCI NAME	CAS NUMBER	EC NUMBER	COSMETIC FUNCTION
Salvia Sclarea Oil	8016-63-5	283-911-8	Perfuming
Eugenia Caryophyllus Bud Oil	8000-34-8	284-638-7	Perfuming
Cupressus Sempervirens Leaf Oil	8013-86-3	284-888-0	Perfuming
Eucalyptus Globulus Leaf Oil	8000-48-4	283-406-2	Perfuming
Foeniculum Vulgare Oil	8006-84-6	282-892-3	Perfuming
Abies Sibirica Needle Oil	8021-28-1	285-370-3	Perfuming
Boswellia Carterii Oil	89957-98-2	289-620-2	Perfuming
Pelargonium Graveolens Flower Oil	8000-46-2	282-461-7	Perfuming
Zingiber Officinale Root Oil	8007-08-7	283-397-0	Perfuming
Citrus Paradisi Peel Oil	8016-20-4	289-904-6	Perfuming
Jasminum Officinale Flower Oil	90045-94-6	289-959-1	Perfuming
Juniperus Communis Fruit Oil	8002-68-4	282-045-4	Perfuming
Lavandula Angustifolia Oil	8000-28-0	289-995-2	Perfuming
Citrus Limon Peel Oil	8008-56-8	284-515-8	Perfuming
Cymbopogon Flexuosus Oil	8007-02-1	290-587-9	Perfuming
Citrus Aurantifolia Peel Oil	8008-26-2	290-010-3	Perfuming
Citrus Nobilis Peel Oil	8008-31-9	284-521-1	Perfuming
Litsea Cubeba Fruit Oil	68855-99-2	272-361-2	Perfuming
Citrus Aurantium Amara Flower Oil	8016-38-4	277-143-2	Perfuming
Citrus Sinensis Peel Oil Expressed	8008-57-9	232-433-8	Perfuming
Pogostemon Cablin Leaf Oil	8014-09-3	282-493-0	Perfuming
Mentha Piperita Oil	8006-90-4	282-015-4	Perfuming
Citrus Aurantium Amara Leaf/Twig Oil	8016-37-3	277-143-2	Perfuming
Pinus Sylvestris Leaf Oil	8023-99-2	294-046-6	Perfuming
Rosa Damascena Flower Oil	8007-01-0	290-260-3	Perfuming
Rosmarinus Officinalis Leaf Oil	8000-25-7	283-291-9	Perfuming
Amyris Balsamifera Bark Oil	8015-65-4	284-015-5	Perfuming
Mentha Spicata Herb Oil	8008-79-5	283-656-2	Perfuming
Citrus Aurantium Dulcis Peel Oil	8008-57-9	232-433-8	Perfuming
Melaleuca Alternifolia Leaf Oil	85085-48-9	285-377-3	Perfuming

INCI NAME	CAS NUMBER	EC NUMBER	COSMETIC FUNCTION
Curcuma Longa Root Oil	8024-37-1	282-891-8	Perfuming
Vetiveria Zizanoides Root Oil	8016-96-4	282-909-7	Perfuming
Cananga Odorata Flower Oil	8006-81-3	281-092-3	Perfuming

PROHIBITED AND RESTRICTED SUBSTANCES, AND ALLERGENS:

There are no substances in the formulations of each of the products defined as prohibited by Annex II of Regulation (EC) No. 1223/2009.

Any allergens present in the essential and/or fragrance oils used in any of the formulations that exceed 0.01% must be indicated on the labelling of the product(s). The manufacturer is responsible for calculating the allergens present and determining which – if any – must be included on the labelling.

8. INFORMATION ON THE COSMETIC PRODUCT(S).

8.1 Product identification

Product category: Rinse-off cosmetic product
Product type: Solid soap bar (melt-and-pour)
Function: Cleansing of the skin
Intended area of application: Hands and body
Target population: General population

The product is not intended for use on the eye area or mucous membranes and is not specifically formulated for children under three years of age.

8.2 Product description

The product is a **solid soap bar** manufactured using a **commercially produced melt-and-pour soap base**. Cosmetic-grade fragrance materials (including essential oils where applicable) and colourants may be incorporated during manufacture within assessed limits.

The finished product is intended to be used with water, briefly lathered on the skin, and rinsed off immediately after use.

8.3 Composition overview

The formulation consists primarily of:

- a soap and surfactant system supplied by the melt-and-pour base;
- humectants (e.g. glycerin, sorbitol, propylene glycol);
- minor cosmetic additives including fragrance/essential oils and colourants.

Colourants used are selected exclusively from **Annex IV of Regulation (EC) No 1223/2009** and are used within permitted conditions. A full qualitative and quantitative composition is provided in **Section 2**.

8.4 Method of manufacture

The melt-and-pour soap base is heated until molten, combined with cosmetic-grade additives, poured into moulds and allowed to cool and solidify. No additional free water is intentionally added during manufacture.

Manufacture is carried out following **Good Manufacturing Practice (ISO 22716)** appropriate to the scale of production.

8.5 Physical and chemical characteristics

Typical characteristics of the finished product include:

- **Physical form:** Solid bar
- **Colour:** Variant-dependent
- **Odour:** Characteristic of the base and added fragrance materials
- **pH:** Appropriate for solid soap products

- **Solubility:** Lathers and disperses in water during use

Minor variations in colour or appearance may occur between batches due to the use of cosmetic colourants and fragrance materials.

8.6 Stability and shelf life

The melt-and-pour soap base used is designed to produce finished products with suitable physical and chemical stability. Under normal storage conditions, the product is expected to remain stable throughout its intended shelf life.

A known and acceptable characteristic of glycerin-containing soaps is the potential for surface "sweating" under conditions of high humidity; this does not affect product safety.

8.7 Packaging

The product is packaged in cosmetic-grade primary packaging suitable for solid soap products (e.g. paper wrap, film, carton). Packaging materials are compatible with the formulation and do not adversely affect product quality or safety.

8.8 Labelling and consumer information

Product labelling complies with **Article 19 of Regulation (EC) No 1223/2009** and includes:

- product name and function;
- ingredient list using INCI nomenclature;
- nominal content;
- Responsible Person name and address;
- batch or lot identification;
- period after opening or date of minimum durability, as applicable;
- appropriate instructions for use and warnings.

8.9 Environmental exposure

The product is intended for rinse-off use and is discharged to wastewater during normal use. Ingredients used are commonly present in rinse-off cosmetic products and are not expected to pose environmental concerns at the levels used.

8.10 Conclusion

The information provided adequately describes the cosmetic product, its composition, manufacture, use, packaging and labelling. The product is suitable for assessment under Regulation (EC) No 1223/2009 and is appropriately characterised for safety evaluation.

REPORT PART B – *APPROVAL OF SOAP BAR(S)*

9. ASSESSMENT CONCLUSIONS

9.1 Summary of assessment

A safety assessment has been performed for the cosmetic product described in this report in accordance with **Regulation (EC) No 1223/2009** and the **SCCS Notes of Guidance**.

The product is a **solid, rinse-off soap** manufactured using a commercially produced melt-and-pour soap base, with the addition of cosmetic-grade fragrance materials (including essential oils where applicable) and permitted colourants.

The assessment has considered:

- qualitative and quantitative composition of the product;
- physical and chemical characteristics and stability;
- microbiological quality;
- toxicological profile of the substances;
- consumer exposure and margin of safety;
- intended and reasonably foreseeable use;
- packaging and labelling.

9.2 Regulatory compliance

All ingredients used in the formulation:

- are permitted for use in cosmetic products under Regulation (EC) No 1223/2009;
- comply with applicable Annex restrictions and conditions of use;
- are present at concentrations appropriate for a rinse-off soap product.

Colourants are selected exclusively from **Annex IV** and are used within permitted conditions. Fragrance and essential oil use is assessed at variant level, with compliance to applicable IFRA standards where relevant.

9.3 Exposure and toxicological safety

Consumer exposure is limited by:

- the solid format of the product;
- short contact time during washing;
- immediate rinsing with water.

Systemic Exposure Dose (SED) calculations have been performed using conservative SCCS assumptions. Where quantitative toxicological reference values are available, **Margins of Safety are adequate**. For ingredients where systemic toxicity is not the critical endpoint (e.g. surfactants and

soap constituents), safety is supported by long history of use, rinse-off exposure, and formulation controls.

9.4 Microbiological quality

The microbiological quality of the product is considered appropriate for its category. This is supported by:

- the solid nature of the product and low free water availability;
- use of commercially manufactured soap bases;
- manufacturing in accordance with Good Manufacturing Practice;
- suitable packaging.

9.5 Undesirable effects

No undesirable or serious undesirable effects are expected when the product is used under normal or reasonably foreseeable conditions of use. Appropriate warnings and instructions are provided on the product labelling to minimise foreseeable risks.

9.6 Overall safety conclusion

On the basis of the information available and the assessment performed, the cosmetic product is considered **safe for human health** when used under normal and reasonably foreseeable conditions of use.

This conclusion applies to all variants covered by this assessment, provided that:

- the formulation remains within the assessed composition limits;
- fragrance and colour variants comply with their respective regulatory and safety requirements;
- manufacturing continues to follow Good Manufacturing Practice;
- packaging and labelling remain as assessed in this report.

10. LABELLED WARNINGS AND INSTRUCTIONS OF USE

10.1 General labelling requirements

Labelling for the cosmetic product complies with **Article 19 of Regulation (EC) No 1223/2009**. Information is presented clearly and legibly to enable safe use by the consumer.

10.2 Instructions for use

The following instructions for use are provided on the product packaging or accompanying information:

- Wet the soap and the skin with water.
- Lather the soap on the skin.
- Rinse thoroughly with water after use.

These instructions reflect the intended **rinse-off use** of the product and limit consumer exposure.

10.3 Warnings and precautions

Based on the product type, formulation and intended use, the following warnings are included:

- **For external use only.**
- **Avoid contact with eyes.**
- **In case of contact with eyes, rinse immediately with plenty of water.**
- **Do not apply to broken or irritated skin.**
- **Discontinue use if irritation occurs.**
- **Keep out of reach of children.**

These warnings are considered appropriate for a solid soap product containing surfactants, fragrance materials (including essential oils where applicable), and colourants.

10.4 Special warnings

No ingredients present in the formulation require **mandatory special warnings** under the Annexes to Regulation (EC) No 1223/2009 when used in this product type.

Where fragrance materials are used, compliance with applicable IFRA standards is ensured at variant level.

10.5 Product identification and traceability

The label also includes:

- product name and function;
- ingredient list using INCI nomenclature;
- nominal content;

- name and address of the Responsible Person;
- batch or lot identification;
- date of minimum durability or period after opening (PAO), as applicable.

10.6 Sufficiency of labelling

The labelled warnings and instructions of use are considered **adequate and sufficient** to ensure safe use of the product under normal and reasonably foreseeable conditions.

No additional warnings are considered necessary.

11. REASONING

11.1 Basis of assessment

This Cosmetic Product Safety Report has been prepared in accordance with **Regulation (EC) No 1223/2009**, taking into account the **SCCS Notes of Guidance**, relevant scientific opinions, and the information provided in Parts A and B of this report.

The assessment considers the cosmetic product as placed on the market, including its composition, toxicological profile, microbiological quality, exposure conditions, packaging, labelling, and intended and reasonably foreseeable use.

11.2 Product characterisation and exposure

The product is a **solid, rinse-off soap** manufactured using a **commercially produced melt-and-pour soap base**, with limited additions of fragrance materials (including essential oils where applicable) and permitted colourants.

Consumer exposure is limited by:

- the solid format of the product;
- short contact time during use;
- immediate rinsing with water.

Conservative SCCS exposure assumptions have been applied where quantitative assessment is required.

11.3 Safety of ingredients and formulation

All ingredients used in the formulation are permitted for cosmetic use under Regulation (EC) No 1223/2009 and comply with applicable Annex restrictions and conditions of use.

Where quantitative toxicological reference values are available, margins of safety are adequate. Where systemic toxicity is not the critical endpoint (e.g. for surfactants and soap constituents), safety is supported by established use history, rinse-off exposure, and formulation controls.

Fragrance and essential oil components are assessed at variant level and are compliant with applicable IFRA standards.

11.4 Microbiological quality and GMP

The microbiological quality of the product is considered appropriate for its category. This is supported by:

- the solid nature of the product and low free water availability;
- use of commercially manufactured soap bases;
- manufacture in accordance with Good Manufacturing Practice;
- suitable packaging.

11.5 Undesirable effects and risk management

No undesirable or serious undesirable effects are expected under normal or reasonably foreseeable conditions of use. Appropriate warnings and instructions for use are provided on the product labelling to minimise foreseeable risks.

Procedures are in place to monitor and report any adverse effects in accordance with **Article 23 of Regulation (EC) No 1223/2009**.

11.6 Final conclusion

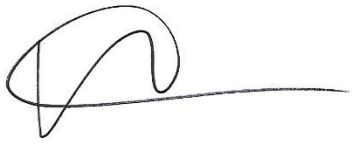
On the basis of the information available and the assessment performed, the cosmetic product is considered **safe for human health** when used under normal and reasonably foreseeable conditions of use.

This conclusion applies to all product variants covered by this assessment, provided that:

- the formulation remains within the assessed composition limits;
- fragrance and colour variants comply with their respective regulatory and safety requirements;
- manufacturing continues to follow Good Manufacturing Practice;
- packaging and labelling remain as assessed in this report.

12. ASSESSORS CREDENTIALS AND APPROVAL OF PART B

This product meets the requirements of Regulation (EC) No. 1223/2009 of the European Parliament and of the Council of 30 November 2009 and SCHEDULE 34 OF THE PRODUCT SAFETY AND METROLOGY ETC. (AMENDMENT ETC.) (EU EXIT) REGULATIONS 2019 and is approved.



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CARDIFF UNIVERSITY
PRIFYSGOL CAERDYDD

It is hereby certified that

Michael Peter David Ford

has been conferred the award of
Bachelor of Science
in Biochemistry

Second Class Honours Division One

21 July 2020

Ardystir drwy hyn fod

Michael Peter David Ford

wedi cael dyfarniad
Baglor mewn Gwyddoniaeth
mewn Biocemeg

Anrhydedd Ail Ddosbarth, Adran Un

21 Gorffennaf 2020

Vice Chancellor
Is-Ganghellor

05391641-01-DEUG

CARDIFF UNIVERSITY
PRIFYSGOL CAERDYDD

It is hereby certified that

Michael Peter David Ford

has been conferred the award of
Master of Research

Distinction

07 October 2021

Ardystir drwy hyn fod

Michael Peter David Ford

wedi cael dyfarniad
Athro Mewn Ymchwil

Rhagoriaeth

07 Hydref 2021

Vice Chancellor
Is-Ganghellor

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