

NAILLEGEND

Bath Bomb

Compliance & Technical Dossier

Fizzing · Bubble · Butter-Rich · Layered-Swirl · Embedded-Surprise | Round, Half-Sphere & Shaped Forms

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Table of Contents

0. Dossier Overview & Legal Notice	1
1. INCI Ingredient List	3
2. Technical Data Sheet (TDS)	5
3. Safety Data Sheet (SDS)	7
4. Formulation Disclosure Statement	9
5. Fragrance Allergen Declaration	11
6. IFRA Conformity Statement	13
7. Colourant Compliance Statement	14
8. Stability Test Report	16

0. Dossier Overview & Legal Notice

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** Compliance & Technical Dossier — Overview | **Issue date:** 2026-06-22 | **Version:** 1.0

What this dossier is

This is the **Compliance & Technical Dossier** for the NailLegend **Bath Bomb** category (fizzing / bubble / butter-rich / layered-swirl / embedded-surprise lines; round, half-sphere and shaped forms). It brings together, in one document, the technical and regulatory information a brand-owner or distributor needs when sourcing this product on an OEM / Private-Label basis for the **US (FDA)** and **EU (Regulation EC 1223/2009)** markets.

The data in this dossier are **representative of NailLegend's standard production** for this category. They are typical values issued by NailLegend's in-house quality function. For a specific order, the figures are reconfirmed against the **final agreed formula and production batch**, and batch-specific certificates of analysis are issued with shipment.

What kind of product this is (anhydrous effervescent)

A bath bomb is an **anhydrous (water-free) effervescent** solid: a moulded mass of dry acid (anhydrous citric acid) and base (sodium bicarbonate) that is dormant while dry and only reacts — fizzing CO₂, releasing colour, fragrance and skin-conditioning butters/oils — **on contact with bath water**. Because the reaction is triggered by moisture, this product is **highly moisture-sensitive**: ambient humidity, perspiration or any water ingress causes premature reaction (bloating, surface "bloom/warts," loss of fizz). For this reason, **moisture-barrier primary packaging (individual shrink-wrap / sealed pouch / sealed box) is a functional requirement, not an option**, and certain wet-product tests (preservative-efficacy challenge, finished-product microbiological enumeration) **do not apply** to this anhydrous format.

Regulatory responsibility

Final market-placement responsibility — FDA cosmetic listing (MoCRA), EU CPNP notification, appointment of the EU Responsible Person, the Cosmetic Product Safety Report (CPSR), the Product Information File (PIF), and final labelling and claims — rests with the **brand owner / importer**.

NailLegend, as the manufacturer, supplies the supporting technical documents in this dossier to enable that work.

Claims guardrails

A bath bomb claiming **cleansing, relaxation, fragrance, skin-softening / moisturizing** is a **cosmetic**. Wording such as "*treats eczema,*" "*cures,*" or "*medical/antibacterial therapy*" reclassifies the product as a **drug** and triggers separate regulation. Keep claims cosmetic — "*relaxing, moisturizing soak,*" not "*cures / treats.*" Two product-specific consumer warnings are recommended on pack (see TDS / SDS): **colour may stain tub or skin — rinse promptly**, and **oils/butters may make surfaces slippery — use caution**.

How to read the data

- **Composition & specification** (INCI, TDS, formulation disclosure, allergen, IFRA and colourant statements) describe the product as manufactured.
- **Test sections** (stability) present the applicable **methods, acceptance criteria, and typical results** for this product, issued by NailLegend's in-house QC. They represent standard production performance; batch-specific certificates accompany each shipment.

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1. INCI Ingredient List

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** INCI Ingredient List (representative — fizzing / butter-rich base) | **Issue date:** 2026-06-22 | **Version:** 1.0

The list below is the representative INCI composition for the Bath Bomb. The definitive descending-order list and on-pack allergen call-outs are confirmed against the final agreed formula for each order before use on artwork or for CPNP notification. Ingredients in *italics* are line-dependent (bubble / butter-rich / coloured / fragranced / mica / embedded variants).

INCI declaration (descending order)

#	INCI name	Function
1	Sodium Bicarbonate	Base / effervescent (CO ₂ generator)
2	Citric Acid	Acid / effervescent (anhydrous grade)
3	<i>Zea Mays (Corn) Starch</i>	Filler / slows fizz rate
4	<i>Magnesium Sulfate (Epsom)</i>	Bath salt / mineral soak
5	<i>Sodium Lauryl Sulfoacetate (SLSA)</i>	Mild foaming agent (bubble line)
6	<i>Sodium Cocoyl Isethionate</i>	Mild secondary surfactant (bubble line)
7	<i>Butyrospermum Parkii (Shea) Butter</i>	Emollient / skin conditioning (butter-rich line)
8	<i>Theobroma Cacao (Cocoa) Seed Butter</i>	Emollient / skin conditioning (butter-rich line)
9	<i>Cocos Nucifera (Coconut) Oil</i>	Emollient carrier oil
10	<i>Polysorbate 80</i>	Emulsifier / disperses oil & colour (anti-stain, anti-ringing)
11	<i>Kaolin</i>	Binder / smooth surface / colour carrier
12	<i>Parfum (Fragrance)</i>	Fragrance (omitted in fragrance-free)
13	<i>Lavandula Angustifolia (Lavender) Oil</i>	Essential oil (line-dependent)
14	<i>CI 42090 (Blue 1) / CI 45410 (Red 27) / CI 19140 (Yellow 5) etc.</i>	Colourant (FD&C / D&C; line-dependent)
15	<i>Mica, CI 77891 (Titanium Dioxide), CI 77491 (Iron Oxides)</i>	Pearlescent / colour effect (mica line)
16	<i>Limonene, Linalool, Citronellol, Geraniol</i>	Fragrance allergens (declared at threshold — see Section 5)

Notes for labelling

- **Ordering** is representative of standard production; the exact descending-order list is issued for the locked formula of each order.

- **EU fragrance allergens** present at or above the labelling threshold (0.001% rinse-off) appear in the on-pack INCI list — see Section 5.
- **Colourants** are declared by **CI number** and must sit within the target-market permitted list (US permitted colour additives FD&C/D&C; EU Annex IV) — see Section 7.
- **This is an anhydrous product:** it contains **no added water and no system preservative;** microbiological growth is not supported in the dry matrix (see Overview).
- **Embedded items** (dried flowers/petals, toy/surprise) are declared and assessed separately where present (see TDS / SDS).

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2. Technical Data Sheet (TDS)

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** Technical Data Sheet (representative specification) | **Issue date:** 2026-06-22 | **Version:** 1.0

1. Product description

A moulded **anhydrous effervescent** ball for whole-body bathing. Dropped into warm bath water it **fizzes** (CO_2), releases colour and fragrance, and disperses skin-conditioning butters/oils. Function depends on the line: standard **fizzing, bubble** (high SLSA foaming), **butter-rich/moisturizing, layered/swirl** (visual), or **embedded/surprise** (dried flower / toy). Pressed in half-sphere moulds with a minimal binder; dormant while dry, reactive on contact with water.

2. Physical & chemical specification (typical)

Property	Specification	Method
Appearance	Hard, moulded solid sphere/shape; smooth to lightly textured surface	Visual
Colour	Per brief (single, layered or swirl); may include mica pearl	Visual
Odour	Characteristic of fragrance/essential oil dosed / odourless (fragrance-free)	Olfactory
Net weight (typical)	100 – 180 g per bomb (mini: 30 – 60 g) — to order	Gravimetric
Weight tolerance	± 5% (moulded process; wider than pressed tablets)	Gravimetric
Diameter (round, typical)	55 – 75 mm — to order	Calliper
Moisture content (as produced)	Low / anhydrous; reactive on water contact	Karl Fischer / LOD
pH (1% solution in water)	5.5 – 7.5 (transient, during effervescence)	pH meter (ISO 4316)
Effervescence (fizz time, full bomb)	~ 2 – 5 min in ~ 37 °C bath water (line-dependent)	Timed dissolution (in-house)
Friability / breakage	Solid, but moulded form is fragile — protective packaging required	Drop / handling check

3. Microbiological status (anhydrous product)

This is a **water-free (anhydrous)** product. With no free water available (low water activity, a_w), the dry effervescent matrix **does not support microbial growth**, and a finished-product microbiological enumeration and a preservative-efficacy (challenge) test are **not applicable** to this format. Raw materials are sourced to standard cosmetic-grade specifications; embedded botanicals (dried flowers/petals), where used, are dried/low-moisture grade. No system preservative is added.

4. Packaging & primary material

- **Primary (functional, not optional):** individual **shrink-wrap / heat-sealed moisture-barrier pouch / sealed box** — protects against humidity ingress (which would trigger premature reaction) **and** against breakage of the fragile moulded form.
- **Secondary:** carton / multi-pack / gift box to brief; cushioned for transit.
- Bombs containing **mica/glitter** or **embedded items** are packed to prevent shedding/colour migration.

5. Storage, shelf life & usage

Item	Value
Storage	Cool, dry place, low humidity, away from direct sunlight and steam; keep sealed until use
Shelf life	12 months unopened in moisture-barrier packaging (humidity- and oil-freshness dependent)
Directions	Drop one bomb into a drawn warm bath; allow to fizz fully; soak. For external bath use only.
Warnings	External use only. Keep dry until use. Colour may stain tub or skin — rinse promptly. Oils/butters may make tub/floor surfaces slippery — use caution. Avoid eyes. Discontinue if irritation occurs. Embedded-item lines: keep away from young children / choking hazard where applicable.

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3. Safety Data Sheet (SDS)

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** Safety Data Sheet — GHS 16-section (representative) | **Issue date:** 2026-06-22 | **Version:** 1.0

Prepared in the UN GHS 16-section format (aligned with US OSHA HazCom 29 CFR 1910.1200 and EU REACH Annex II). The finished product is a cosmetic; classification below reflects the representative formula. Batch- or formula-specific SDS is reissued where the agreed formula differs.

1. Identification — Product: Bath Bomb (anhydrous effervescent bath product). Use: cosmetic, external bath use. Supplier: NailLegend (naillegend.com). Contact: Lareina. Emergency: contact supplier during business hours.

2. Hazard identification — GHS classification: Not classified as hazardous (finished moulded product). The dry product is an acid/base effervescent that **reacts on contact with water, releasing CO₂**; not flammable, not explosive. Dust from broken product may cause mild mechanical/eye/respiratory irritation. Signal word: None (finished product). Precautionary guidance: P264 (wash hands after handling), P280 (eye protection during bulk handling), P305+P351+P338 (eye contact). Keep dry until use.

3. Composition / information on ingredients — Mixture (cosmetic). Components of note: Sodium Bicarbonate (CAS 144-55-8), Citric Acid, anhydrous (CAS 77-92-9), Magnesium Sulfate (CAS 7487-88-9), Sodium Lauryl Sulfoacetate (CAS 1847-58-1), Polysorbate 80 (CAS 9005-65-6) — present per line and within cosmetic use levels. Colourants present by CI number (see Section 7 of dossier). Full composition: see Section 1 (INCI).

4. First-aid measures — Eyes: rinse with water for several minutes; remove contact lenses; seek advice if irritation persists. Skin: external use; if irritation occurs, rinse and discontinue. Ingestion: rinse mouth, do not induce vomiting, give water, seek advice (effervescent — may release gas). Inhalation (dust from broken product): move to fresh air.

5. Fire-fighting measures — Not flammable. Suitable extinguishing media: water spray, foam, CO₂, dry powder. No special hazards from the finished product.

6. Accidental release — Sweep/collect dry spilled product; **avoid contact with water during clean-up** (effervescence). Dispersed butters/oils on wet surfaces are slippery — avoid slip hazard. Avoid bulk release to drains.

7. Handling & storage — Handle per good hygiene practice; keep **dry** and away from humidity/steam. Store cool, dry, out of direct sunlight; keep individual wraps/pouches sealed until use. Keep acid and base raw materials dry during manufacture.

8. Exposure controls / PPE — Consumer use: no PPE required. Bulk handling (manufacturing): dust mask, gloves and eye protection where powders are weighed/mixed; no specific occupational exposure limit assigned to the finished mixture.

9. Physical & chemical properties — Appearance, odour, weight, pH and effervescence: see Section 2 (TDS). Physical state: solid (moulded). Flash point: not applicable. Solubility: dissolves/effervesces in water. Anhydrous (no added water).

10. Stability & reactivity — Stable when kept dry. **Reactivity: reacts with water/moisture** (acid–base effervescence, CO₂ release) — the basis of normal use; uncontrolled exposure to humidity causes premature reaction and product failure. Incompatibilities: water, moisture, strong oxidisers. Hazardous decomposition products: none under normal use (CO₂ released on intended use).

11. Toxicological information — Finished cosmetic confirmed safe for normal use through the brand owner's CPSR. May be mildly irritating to eyes; surfactant/colour lines may transiently colour skin. Not for ingestion.

12. Ecological information — No significant adverse effects expected in normal consumer use. Avoid bulk discharge to the environment. Where glitter is used, prefer biodegradable grades (microplastic considerations — see Section 7 of dossier).

13. Disposal — Dispose of contents and container in accordance with local regulations.

14. Transport information — Not classified as dangerous goods for transport (finished cosmetic). UN number: none. Keep dry in transit.

15. Regulatory information — Cosmetic finished product. US: FDA cosmetic (MoCRA); colour additives per FDA permitted list. EU: Regulation (EC) 1223/2009; colourants per Annex IV. Ingredients comply with applicable cosmetic inventories for the declared markets.

16. Other information — Abbreviations: SLSA sodium lauryl sulfoacetate; a_w water activity; CI Colour Index; PAO period after opening. An SDS is not legally mandatory for a finished cosmetic in all markets but is commonly requested by importers and logistics partners; this SDS is provided for that purpose.

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4. Formulation Disclosure Statement

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** Formulation Disclosure Statement | **Issue date:** 2026-06-22 | **Version:** 1.0

This statement gives the brand owner's safety assessor the functional composition and permitted-range information needed to build the CPSR / PIF, while protecting NailLegend's specific know-how. Exact weight percentages of the locked formula are disclosed **confidentially to the named safety assessor under NDA**; this statement provides the functional framework and confirms each restricted ingredient sits within its permitted limit.

1. Functional composition framework

Block	Function	Representative ingredients
Effervescent system	Fizz / CO ₂ generation	Sodium Bicarbonate (base), Citric Acid anhydrous (acid)
Mineral / filler	Soak, bulk, fizz-rate control	Magnesium Sulfate (Epsom), Corn Starch, Kaolin
Skin-conditioning	Emollience, after-feel	Shea Butter, Cocoa Butter, Coconut Oil
Foaming (line)	Bubble effect	Sodium Lauryl Sulfoacetate (SLSA), Sodium Cocoyl Isethionate
Dispersion	Disperse oil & colour, reduce tub ring/stain	Polysorbate 80
Sensory	Fragrance / essential oil	Parfum (or none), Lavender / Citrus oils
Colour / visual	Colour, layering/swirl, pearl	FD&C / D&C colourants (CI), Mica, Iron Oxides, Titanium Dioxide
Embedded (line)	Surprise / décor	Dried flowers/petals; toy/surprise (assessed separately)

2. Restricted / regulated-ingredient confirmation

Ingredient (class)	Permitted basis	This product
Effervescent acid/base	Standard cosmetic raw materials (food/cosmetic grade)	Anhydrous grades used to prevent premature reaction
Surfactant SLSA / SCI (bubble line)	Standard cosmetic use	Within typical use level
Polysorbate 80 (emulsifier)	Standard cosmetic use	As needed to disperse oils/colour
Colourants	US FDA permitted colour additives; EU Annex IV; declared by CI	Within permitted list & use — see Section 7
Mica / Iron Oxides / Titanium Dioxide	Permitted colourants (Annex IV / FDA)	Cosmetic-grade; non-nano where required
Glitter (if any)	Microplastic / environmental rules apply	Biodegradable grade preferred — see Section 7
Fragrance & allergens	IFRA-compliant; allergens declared at threshold	See Sections 5 & 6
Preservative	Not added (anhydrous product)	None — no free water

3. What is and is not disclosed

- **Disclosed openly:** the functional framework, restricted/regulated-ingredient identities (incl. colourant CI numbers), and confirmation each is within its permitted limit.
- **Disclosed under NDA to the safety assessor only:** exact weight percentages of the locked formula (including the acid:base ratio and oil/butter loading), supplier identities, and process parameters.
- **Not disclosed:** proprietary moulding/binder and fizz-tuning know-how unrelated to safety assessment.

4. Manufacturer statement

For the locked formula supplied to a customer, NailLegend confirms that all ingredients are used within the limits and conditions permitted for cosmetic use in the customer's declared target markets, that the product is **anhydrous (no added water, no system preservative)**, and that supporting documentation (colourant compliance, allergen, IFRA, stability) is provided in this dossier.

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5. Fragrance Allergen Declaration

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** EU Fragrance Allergen Declaration | **Issue date:** 2026-06-22 | **Version:** 1.0

Basis: EU Regulation (EC) 1223/2009. As a **rinse-off** bath product, fragrance allergens present at **≥ 0.01% (100 ppm)** in the finished product must be named in the on-pack INCI list. The table below shows a representative lavender-type fragrance dosed at 1.5% in the bomb. Content is reconfirmed by the fragrance supplier for the specific fragrance of each order; a **fragrance-free** variant declares "none present." (Note: Reg. (EU) 2023/1545 expands the declarable list — the supplementary sheet is added where the target market requires it.)

Allergen content (representative — lavender-type fragrance @ 1.5%)

#	Allergen (INCI)	CAS	Present	% in product	On-pack declaration
1	Linalool	78-70-6	Yes	0.0675	Required
2	Limonene	5989-27-5	Yes	0.0338	Required
3	Geraniol	106-24-1	Yes	0.0158	Required
4	Citronellol	106-22-9	Yes	0.0116	Required
5	Coumarin	91-64-5	Yes	0.0075	Not required (below rinse-off threshold)
6	Citral	5392-40-5	Yes	0.0041	Not required (below rinse-off threshold)
—	Eugenol, Isoeugenol, Cinnamal, Benzyl Benzoate, Benzyl Salicylate, Hexyl Cinnamal, Amyl Cinnamal, Farnesol, Benzyl Alcohol, others	various	No / trace	< 0.0100	Not required

On-pack declaration required for this fragrance (rinse-off ≥ 0.01%): *Linalool, Limonene, Geraniol, Citronellol.*

Declaration

For the fragrance dosed in this product, the allergens marked "Required" above are included in the on-pack INCI list. A **fragrance-free** variant contains no added fragrance allergens. Values are reconfirmed by the fragrance supplier for the specific fragrance and dosage of each order. The applicable threshold here is the **rinse-off** threshold (0.01%); if the brand markets the product under a stricter interpretation, the lower-level allergens are added.

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6. IFRA Conformity Statement

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** IFRA Conformity Statement | **Issue date:** 2026-06-22 | **Version:** 1.0

This statement is supported by the **IFRA Certificate of Conformity issued by the fragrance supplier** for the specific fragrance compound and its dosage. The fragrance supplier's certificate is held on file and provided to the brand owner's safety assessor on request. A **fragrance-free** variant requires no IFRA statement.

1. Product use category

Item	Value
Product type	Bath Bomb (rinse-off; dissolved/diluted in bath water)
IFRA product category	Category 9 (rinse-off / bath products such as bath additives)
Fragrance dosage in finished product	1.5% (representative; to brief)
IFRA Standards edition	51st Amendment

2. Conformity statement

The fragrance compound used at **1.5%** in this Bath Bomb conforms to the **IFRA Standards (51st Amendment)** for the applicable rinse-off product category. All restricted, prohibited and specified materials are within the maximum levels set by the relevant IFRA Standards for this use, as confirmed by the fragrance supplier's IFRA Certificate of Conformity held on file. Where essential oils (e.g. lavender, citrus) are used in place of or alongside the fragrance compound, the same IFRA conformity basis applies to the dosed level.

3. Relationship to allergen labelling

IFRA conformity governs **safe use levels** and is separate from EU **allergen labelling** (declaring allergens at threshold). Allergen content for the dosed fragrance is reported in Section 5.

4. Authorisation

Confirmed on the basis of the fragrance supplier's IFRA certificate for the dosed fragrance.

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7. Colourant Compliance Statement

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** Colourant Compliance Statement | **Issue date:** 2026-06-22 | **Version:** 1.0

Bath bombs rely on strong colour for their visual appeal (single, layered, swirl, mica pearl). Because colourants are heavily regulated and market-specific, this statement confirms that the colours used sit within the **target-market permitted lists**, and flags the two consumer-facing colour risks specific to this product: **tub/skin staining** and **mica/glitter shedding**. The exact colour set is confirmed per order and per target market.

1. Regulatory basis

Market	Basis	Requirement
United States (FDA)	21 CFR Parts 73 / 74 / 82 — permitted colour additives	Colours must be FDA-listed for cosmetic use; FD&C / D&C colours used per their approved uses; certain colours require batch certification
European Union	Regulation (EC) 1223/2009 Annex IV — list of permitted colourants	Only Annex-IV colourants, within their conditions; declared by CI number in the INCI list
Both	Labelling	Colourants declared by Colour Index (CI) number / approved name on pack

2. Representative colour set (confirmed per order / market)

Colour / effect	Identity (CI)	US (FDA)	EU (Annex IV)
Blue	CI 42090 (Blue 1)	Permitted (cosmetic)	Permitted
Pink / red	CI 45410 (Red 27 / 28)	Permitted (cosmetic)	Permitted
Yellow	CI 19140 (Yellow 5)	Permitted (cosmetic)	Permitted
White / opacity	CI 77891 (Titanium Dioxide)	Permitted	Permitted
Pearl base	Mica (CI 77019)	Permitted	Permitted
Earth tones	CI 77491 / 77492 / 77499 (Iron Oxides)	Permitted	Permitted

The above is representative. The colours actually used are selected from the **target-market permitted list** for each order; any colour not permitted in a declared market is substituted before production.

3. Product-specific colour risks & mitigations

- **Tub / skin staining:** strong water-soluble colours can stain bathtubs (especially older, porous, or acrylic surfaces) and transiently tint skin. **Mitigation:** dose colour conservatively, include **Polysorbate**

80 to disperse colour/oil and reduce ring/stain, and recommend the on-pack warning "*colour may stain tub or skin — rinse promptly.*"

- **Mica / glitter shedding & microplastics:** cosmetic glitter may fall under microplastic / environmental restrictions (e.g. EU REACH microplastic measures). **Mitigation:** prefer **biodegradable glitter** or mica-based pearl effects; confirm glitter grade against the target market before use.
- **Oil ring / slip:** dispersed butters/oils can leave a tub ring and a slippery surface — see TDS / SDS warnings.

4. Manufacturer statement

For the colour set locked for a given order, NailLegend confirms that each colourant is selected from the **permitted colour-additive list of the customer's declared target market(s)** (US FDA permitted colours / EU Annex IV), is declared by CI number for labelling, and — where glitter is used — is specified to meet applicable microplastic/environmental requirements. Colourant suppliers' specifications and, where relevant, US batch-certification references are held on file and provided to the safety assessor on request.

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8. Stability Test Report

Issued by: NailLegend · naillegend.com | **Contact:** Lareina | **Product:** Bath Bomb **Document:** Stability Test Report — representative result | **Issue date:** 2026-06-22 | **Version:** 1.0

Physical, chemical and packaging-compatibility stability supporting shelf life, tested in market packaging (individual moisture-barrier shrink-wrap / sealed pouch). For an **anhydrous effervescent** product the controlling stability factors are **moisture pick-up** (premature reaction → bloating / surface bloom / loss of fizz), **oil/butter oxidation** (rancidity), **colour migration / bleed**, and **mechanical integrity** (fragile moulded form). Results are **typical of NailLegend standard production**, issued by NailLegend in-house QC. Batch-specific stability is monitored under the ongoing programme.

Reference batch (example): **BB-2406-01**

1. Study design

Condition	Temperature / RH	Pull points
Real-time	25 ± 2 °C / 60% RH	0, 3, 6, 12 months
Accelerated	40 ± 2 °C / 75% RH	0, 1, 2, 3 months
Humidity stress (open / partial-seal)	25 °C / 75% RH (challenge)	per protocol

Packaging tested: individual moisture-barrier shrink-wrap / sealed pouch (as supplied to market).

2. Parameters & results (typical)

Parameter	Acceptance	T0	Accel. 3 mo	Real-time 12 mo	Pass/Fail
Appearance (no bloat / bloom / cracking)	Conforms	Conforms	Conforms (sealed)	Conforms (sealed)	Pass
Colour (no bleed / migration)	Within range	Pass	No significant change	No significant change	Pass
Odour (no rancidity)	No rancidity	Pass	Pass	Pass	Pass
Effervescence / fizz performance	Vigorous, full fizz	Pass	Pass	Pass	Pass
Moisture pick-up (sealed pack)	No premature reaction	Pass	Pass	Pass	Pass
Hardness / mechanical integrity	No crumbling in pack	Pass	Pass	Pass	Pass
Humidity stress (unsealed challenge)	Reaction expected	—	Bloat/soften observed (confirms moisture sensitivity)	—	Informational

3. Conclusion

In sealed moisture-barrier packaging, the product remains stable — effervescence, colour, odour and form retained. The humidity-stress (unsealed) arm confirms the product's inherent **moisture sensitivity**, underlining that the **sealed moisture-barrier primary pack is a functional requirement**. Based on accelerated and real-time data, the assigned shelf life is **12 months** unopened in moisture-barrier packaging. Real-time study is ongoing and confirms stability to date. Overall result: **PASS (sealed pack; real-time ongoing)**.

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