



Stephenson

# Liquid Bases

For Hair, Body and Multi-purpose use

# Navigation



# Introducing Liquid Bases

Stephenson offer a comprehensive range of liquids bases. From Surfactant concentrates to certified sustainable and organic bases, for haircare, bodycare and liquid soap applications.

Our Liquid Base guide has been designed for easy search and selection of the right product.

All bases are simple to process and can easily be adapted with the addition of colour, fragrance or thickening solution to produce an array of premium quality personal care products including:

- » Multi-purpose soaps
- » Bodywashes
- » Haircare / Shampoo
- » Bath (Gels, bubble)
- » Handcare (Washes)
- » 3 in 1 application products

A number of our bases are Soil Association, RSPO or COSMOS certified, so you can rest assure on the quality and authenticity when formulating your personal care or domestic product and relevant sustainability claims

Our latest arrival, **Liquid Soap 2020** has been formulated with vegetable derived oils and is ideal as a multi-purpose personal care and hard surface cleaner. A strong addition in the fight against germs and viruses. Produce a variety of fantastic, natural finished products.





# The benefits of Liquid Bases

- » Easy to use
- » Great quality
- » Easily enhanced with the addition of fragrance, additives and colour
- » Versatile - can enhance production of soaps with colour or particles
- » Great fragrance lift
- » Moisturising properties
- » Excellent foaming and cleansing properties
- » A variety of liquid soap concentrates with a blend of surfactants
- » Customised formulations available



## Liquid product applications



# Discover the Liquid range

Click image to view product information



3 in 1  
Bodywash



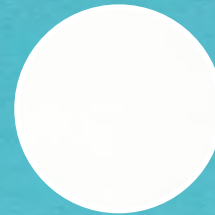
Bodywash  
Base



Suspending  
Bodywash



Premium Hair  
& Bodywash



Premium  
Conditioner  
Base



Shampoo  
Base



Hair  
Conditioner  
Base



Liquid Soap  
2020



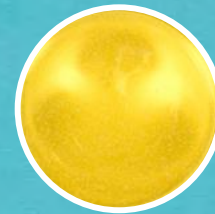
Liquid Crystal  
Concentrate



Liquid  
PK-SG



Liquid Soap  
100



Liquid Soap  
101



Liquid Soap  
105





# Liquid Bases for Face & Bodycare

Created for use across a range of personal care applications including handwash, shower gel and bubble bath. Requiring the addition of colour, fragrance and additive. Stephenson Liquid Bases for face & bodycare are the perfect starting point for a range of retail products.

# 3 in 1 Bodywash

## Liquid Bodywash Base

Ready-made 3 in 1 Bodywash designed to create a number of innovative and unique finished products in a few simple steps.

This product only requires the addition of fragrance and additives to create one of three products: Bubble Bath, Handwash or Shower Gel.



### Product characteristics

- » For the creation of a Bubble Bath, Handwash or Shower Gel
- » Pre-preserved and pre-thickened for ease of processing
- » Fantastic foam and lathering levels
- » Neutral odour provides excellent fragrance lift
- » Transparent liquid, easily coloured
- » Naturally clear
- » Suitable for all skin types

### Key ingredients

- » Aqua
- » Sodium Laureth Sulfate
- » Sodium Chloride
- » Glycerin
- » Cocamidopropyl Betaine
- » Polyquaternium-7

### Specification

Appearance	Clear viscous liquid
pH @ 25°C	4.5 - 5.5
Viscosity	10,000 - 20,000 cP



# Bodywash

## Liquid Bodywash Base



Our Bodywash Base is derived from organic oils, allowing for certification by Soil Association. Easily enhanced by the simple addition of essential oils or fragrance and can readily be thickened with salt.

### Product characteristics

- » Allows production of a certified bodywash, if the converter/filler has organic certification
- » Contains a true liquid soap derived from Organic Sunflower and Coconut oils
- » Blended with gentle surfactants to provide a creamy lather
- » Pre-thickened, but can be made thicker by the addition of common salt (Sodium Chloride) if required

### Key ingredients

- » Aqua
- » Potassium Cocoate\*
- » Potassium Oleate\*\*
- » Lauryl Betaine
- » Glycerin

### Specification

Appearance	Clear to translucent yellow liquid
pH @ 25°C	9.5 - 10.5
Viscosity	1,000cP Max
Soil Association	79.01% Organic ingredients as sold

\* Derived from Organic Coconut Oil

\*\*Derived from Organic Sunflower Oil





# Suspending Bodywash

## Liquid Bodycare Base

A Paraben Free, ready-made bodywash designed to suspend a variety of particles, creates an innovative and unique finished product.

This product can be enhanced with the addition of fragrance and your suspending particles of choice (e.g. cosmetic glitter, beads, poppy seeds and other exfoliates).

### Product characteristics

- » Requires only perfume, colour and particles for suspension
- » Neutral odour provides excellent fragrance lift
- » Transparent liquid which can be coloured easily
- » Effective at suspending a variety of particles

### Key ingredients

- » Aqua
- » Sodium Laureth Sulfate
- » Cocamidopropyl Betaine
- » Xanthan Gum,
- » Phenoxyethanol

### Specification

Appearance	Translucent liquid gel
pH @ 25°C	6.5 – 7.5
Viscosity	4,000 - 8,000cP



A person is shown from the back, washing their long, dark hair with a thick, white foam of shampoo. Water is spraying from a showerhead on the left, creating a misty effect. The background is a soft-focus view of green foliage. The entire image has a semi-transparent grey overlay.

# Liquid Bases for Haircare

Created for use across all hair and personal care applications including bodywash, shampoo and conditioners. Can be enhanced with the addition of colour, fragrance and additives. Our Haircare Liquid Bases are the perfect starting point for a range of retail products.

# Premium Hair & Bodywash

## Liquid Bodycare Base

Our Premium Hair & Bodywash Base contains gentle surfactants to provide a high luxurious foam. Fully formulated and pre-preserved, our Premium Hair & Bodywash Base can be enhanced with the simple addition of fragrance and additives to create a range of finished products. This multi-purpose base allows for the manufacture of either a Premium Shampoo or Premium Shower Gel/Bodywash.

### Product characteristics

- » Allows production of a fantastic Premium Shampoo or Bodywash
- » Blended with gentle surfactants, to provide a high luxurious foam
- » Low colour
- » Fantastic clarity
- » Vegetable origin
- » No thickening required / pre preserved / fully formulated

### Key ingredients

- » Aqua
- » Cocamidopropyl Betaine
- » Sodium Lauroyl Isethionate
- » Lauryl Glucoside

### Specification

Appearance	Clear, translucent gel
pH @ 25°C	5.5 – 6.0
Viscosity	8,000 - 18,000cP



# Premium Conditioner Base

## Liquid Haircare Base

Our Premium Conditioner is a fully formulated, pre-thickened base suitable for all hair types. The conditioning agents in this rich and creamy base provide excellent wet and dry feel and leave hair feeling nourished and looking shiny.

It is ready to use and only requires the addition of essential oils or fragrance.

### Product characteristics

- » Allows production of a fantastic Premium Conditioner
- » Suitable for all hair types
- » Contains nourishing conditioning agents
- » No thickening required / pre-preserved / fully formulated

### Key ingredients

- » Aqua
- » Cetearyl Alcohol
- » Glycerin
- » Behentrimonium Chloride
- » Distearoylethyl Dimonium Chloride
- » Panthenol

### Specification

Appearance	White, viscous cream
pH @ 25°C	3.5 - 4.5
Viscosity	14,000 - 18,000cP





# Shampoo Base

## Liquid Haircare Base



This Shampoo Base is fully formulated, contains mild surfactants and is pre-thickened and simply requires the addition of fragrance and or essential oils.

### Product characteristics

- » Blended with gentle surfactants to produce a creamy lather
- » Enriched with Aloe Vera
- » No thickening required
- » Fully formulated base, only requiring addition of organic fragrance or essential oils
- » Can be adapted for different hair types through selection of additives

### Key ingredients

- » Aqua
- » Decyl Glucoside
- » Aloe Vera\*
- » Lauryl Betaine

### Specification

Appearance	Clear to translucent, colourless to pale yellow liquid
pH @ 25°C	4.5 – 5.5
Viscosity	3,000 - 8,000cP
Soil Association	74.47% Organic ingredients as sold

\*Certified Organically Grown Ingredient



# Hair Conditioner

## Liquid Haircare Base



This Hair Conditioner Base is blended with nourishing organic certified Shea Butter, Jojoba, Sunflower, Olive and Coconut oils. This base is fully formulated, pre-thickened and only requires the addition of organic essential oils or fragrance.

It is suitable for all hair types and enriched with nourishing emollients.

### Product characteristics

- » Blended with nourishing organic certified Shea Butter, Jojoba, Sunflower, Coconut and Olive oils
- » Enriched with moisturising Aloe Vera
- » Light velvety texture
- » Suitable for all hair types

### Key ingredients

- » Aqua
- » Cetearyl Alcohol
- » Betaine
- » Coco-Glucoside

### Specification

Appearance	Off white to pale yellow lotion
pH @ 25°C	3.8 - 4.4
Viscosity	3,000 – 8,000cP
Soil Association	69.60% Organic ingredients as sold



A background image showing a pair of hands being washed with white, bubbly soap foam. The hands are positioned in the center-right of the frame, with fingers interlaced. The background is a light, slightly textured surface, possibly a wall or a large sheet of paper. The overall tone is clean and hygienic.

# Multi-Purpose Liquid Soap Bases

Specially designed to work across a range of household and personal care applications, this range of Multi-Purpose Liquid Soap Bases can be enhanced with fragrances, preservatives and readily thickened with the addition of salt.

# Liquid Soap 2020

## NEW Multi-Purpose Liquid Soap

Liquid Soap 2020 is derived from natural vegetable oils, and is ready to use. It can be enhanced by salt-thickening and adding fragrance if desired.

### Product characteristics

- » A true liquid soap derived from vegetable oils and fatty acids
- » Has a natural translucent pale yellow colour
- » Suitable for multi-purpose applications for hand and bodywashing, surface cleaning etc.
- » Can be enhanced using additional essential oils or fragrance
- » Readily thickened by the addition of common salt (Sodium Chloride) if required

### Product applications

### Key ingredients

- » Aqua
- » Potassium Oleate
- » Potassium Palm Kernelate
- » Glycerin
- » Sodium Chloride

### Specification

Appearance	Clear yellow liquid
pH @ 25°C	10.5– 11.4
Viscosity	200 - 1,000cP





# Liquid Crystal Concentrate

## Liquid Bodycare Base

Liquid Crystal Concentrate is a concentrated blend of surfactants that can be used for the formulation of shampoos, shower gels, bubble baths or liquid hand washes.

### Product characteristics

The Liquid Crystal Concentrate system provides a simple way of producing a variety of personal care cleansing products of consistent quality. The addition of liquid pearl, and / or conditioning additive increases the look and feel of the product allowing a wide range of variants to be produced from a single concentrate.

- » Dilute with water to the desired concentration to produce shampoos, shower gels, foam baths or liquid hand washes
- » Can be thickened to desired viscosity using sodium chloride
- » Neutral odour provides excellent fragrance lift

### Key ingredients

- » Aqua
- » Cocamidopropyl Betaine
- » Sodium Laureth Sulfate
- » Polyquaternium 7

### Specification

Appearance	Clear to slightly hazy viscous liquid
pH @ 25°C	6.0 - 7.0



# Liquid PK SG

Certified RSPO Segregated



Liquid PK SG is a liquid soap made using 100% RSPO certified segregated sustainable palm kernel oil.

## Product characteristics

- » Dilute with water to the desired concentration to produce a range of liquid soaps
- » Low odour provides excellent fragrance lift
- » Works well with essential oils
- » Can be thickened with a number of rheology modifiers
- » Permits sustainable palm use claims\*

\*Any marketing claim using RSPO must abide by the regulations and guidelines set by RSPO for more information [click here](#).

## Key ingredients

- » Aqua
- » Glycerin\*\*
- » RSPO Segregated Palm Kernel Oil

## Specification

Appearance	Amber/clear yellow liquid
pH @ 25°C	10.0 – 10.8
RSPO Certification	BMT-RSPO-000008

\*\*Glycerin derived from the RSPO SG palm kernel oil during the saponification reaction



# Liquid Soap 100

## Potassium Cocoate



Liquid 100, also known as a Potassium Cocoate base, is used in a wide range of products and formulas including liquid soaps, shampoos, cleaning products and much more.

### Product characteristics

- » Dilute with water to the desired concentration to produce a range of liquid soaps.
- » Low odour provides excellent fragrance lift.
- » Works well with essential oils.
- » Made with organic coconut oil allowing for certification by Quality Assurance International or COSMOS.
- » Can be thickened with a number of rheology modifiers- such as guar gum.

### Key ingredients

- » Aqua
- » Potassium Cocoate\*
- » Glycerin\*\*

### Specification

Appearance	Amber/clear yellow liquid
pH @ 25°C	10.0 - 10.8
USDA NOP	77.59% Organic Ingredients
COSMOS Certification	33.8% Organic Ingredients

\*Made with organic oil

\*\*Derived from organic coconut oil during the saponification process



# Liquid Soap 101

## Coconut & Olive Oil Liquid Soap



A 45% active liquid soap made with organic coconut and olive oil, certified by Quality Assurance International or Soil Association Certification COSMOS.

### Product characteristics

- » Dilute with water to the desired concentration to produce a range of liquid soaps.
- » Low odour provides excellent fragrance lift.
- » Works well with essential oils.
- » Can be thickened with a number of rheology modifiers
- » Clearly identifiable and segregated throughout the manufacturing chain- QAI Standards.
- » Made With organic oils allowing for certification by Quality Assurance International or COSMOS.

### Key ingredients

- » Aqua
- » Potassium Cocoate\*
- » Glycerin\*\*
- » Potassium Olivat\*

### Specification

Appearance	Amber/clear yellow liquid
pH @ 25°C	10.0– 10.8
USDA NOP	77.59% Organic Ingredients
COSMOS Certification	33.8% Organic Ingredients

\*Made with organic oils

\*\*Derived from coconut & olive oil, during the soap making process.



# Liquid Soap 105

Also known as Liquid Castile Soap



A natural liquid soap base, certified by Quality Assurance International or Soil Association Certification Cosmos. Requires the simple addition of certified essential oils for fragrance, and can readily be thickened with salt.

**Liquid Soap 105C** / COSMOS: 23% Organic Ingredients

**Liquid Soap 105N** / USDA NOP: 75.49% Organic Ingredients

**Liquid Soap 105S** / Soil Association: 95.06% Organic Ingredients

## Product characteristics

- » A true liquid soap made with organic vegetable oil
- » Made with organic oils
- » Has a natural translucent pale yellow colour
- » To gain certification use salt tablets with no anti-caking agent

## Key ingredients

- » Aqua
- » Potassium Oleate\*
- » Potassium Cocoate\*\*
- » Glycerin\*\*\*

## Specification

Appearance	Clear yellow liquid
pH @ 25°C	10.5– 11.4
Viscosity	1,000cP max

\*Derived from organic Sunflower oil

\*\*Derived from organic coconut oil

\*\*\*Organic origin



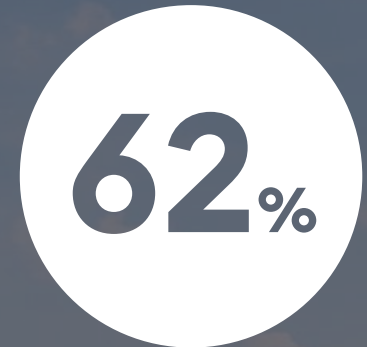
# Certification Status

A key benefit of liquid soap is certification status; which is a very powerful tool in building trust with consumers.

For organic products, it builds confidence that the products they buy contain materials that are organically produced and have not been subject to any unsuitable processing. Liquid Soap 105, being naturally derived from vegetable oils, can be used to achieve a certified organic product range, or to achieve a specific level of organic content.

For brands looking to achieve RSPO Certified Status, it is difficult to find synthetic surfactants that have any more than Mass Balance certification. For brands to achieve higher level RSPO status, they should consider liquid soaps, produced using Certified Segregated Palm Oil and Palm Kernel Oil.

Stephenson COSMOS, NOP and RSPO Certified Liquid Soap Bases allows the creation of a variety of finished products; offering specific value to companies looking to make sustainable, natural or 'Made with Organic' claims on your product range.



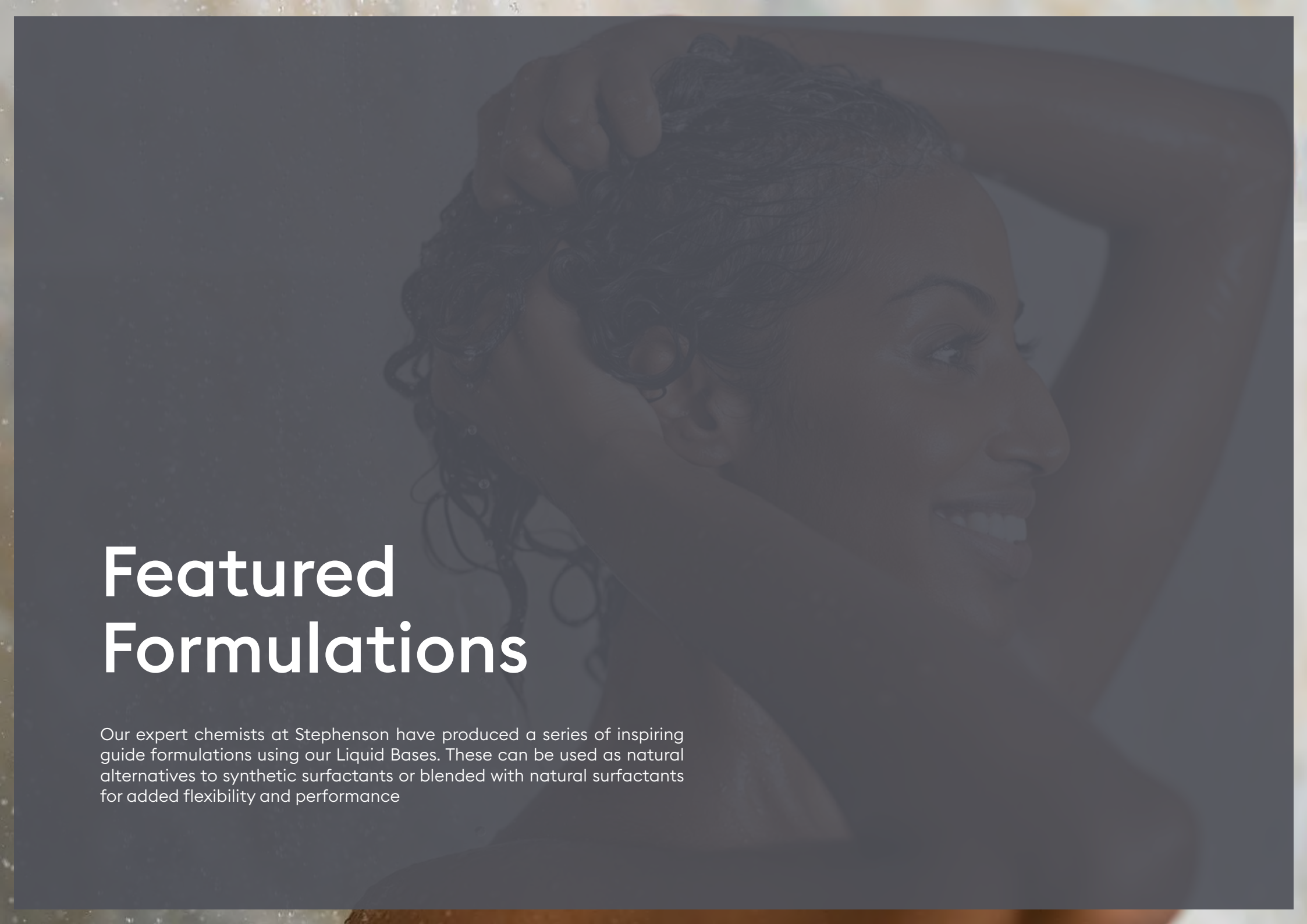
of soap, bath and shower launches in Europe in 2018 had a natural claim – steady on previous years.

-Mintel



The global bath and shower products market is projected to grow at a CAGR of 3.5% during the forecast period, 2020-2025

-Bath and Shower Products Market - Growth, Trends, and Forecast (2020 - 2025)



# Featured Formulations

Our expert chemists at Stephenson have produced a series of inspiring guide formulations using our Liquid Bases. These can be used as natural alternatives to synthetic surfactants or blended with natural surfactants for added flexibility and performance

LIQUID SOAP FEATURED FORMULATION

# Natural Beard Wash

## COSMOS Organic



### Product used    Liquid Soap 105



For a natural beard wash, you can use Liquid Soap 105, made with saponified organic coconut oil.

Coconut oil is a powerful, fast-absorbing moisturiser, high in Vitamin E, and acts as an antioxidant with anti-ageing, antiviral and anti-fungal benefits, known for protecting skin cells from damage and restoring dry, flaking skin.

- » Natural
- » High in Vitamin E
- » Made with organic coconut oil

INGREDIENT	INCI	FUNCTION	STAGE	%W/W
Liquid Soap 105	Aqua (and) Potassium Oleate (and) Potassium Cocoate (and) Glycerine (and) Potassium Citrate (and) Citric Acid	Surfactant	A	97.5
Vitamin E	Tocopherol	Anti-oxidant	B	0.50
Salt	Sodium Chloride	Viscosity modifier	C	2.00

LIQUID SOAP FEATURED FORMULATION

# Natural Handwash

## RSPO Segregated

Product used **Liquid Soap PK-SG**



Formulated with saponified RSPO Certified Segregated Sustainable Palm Kernel Oil. Ideal for differentiating your products with natural and sustainable claims.

- » Natural
- » Superior cleansing & moisturising
- » Smooth, silky after feel



INGREDIENT	INCI	FUNCTION	STAGE	%W/W
Liquid Soap PK-SG	Aqua (and) Potassium Palm Kernelate (and) Glycerin (and) Potassium Citrate (and) Citric Acid	Surfactant	A	96.8
Glycerin*	Glycerin	Humectant	B	3.00
Lemon Essential Oil	Citrus Limon Leaf Oil	Fragrance	C	0.10
Lime Essential Oil	Citrus Aurantifolia Leaf Oil	Fragrance	C	0.10

\*Glycerin must be either RSPO Certified or Palm Free in order to meet the requirements for RSPO Segregated Certification



LIQUID SOAP FEATURED FORMULATION

# Natural Face Wash

## COSMOS Organic\*



### Product used **Liquid Soap 105**



Sunflower Oil is rich in linoleic fatty acid (Omega 6), which offers good skin absorption, maintains the skin's natural barrier, and has anti-inflammatory properties.

- » Natural
- » Clean rinse-off and pleasant after feel
- » Superior moisturisation
- » High in Vitamin E

INGREDIENT	INCI	FUNCTION	STAGE	%W/W
Liquid Soap 105	Aqua (and) Potassium Oleate (and) Potassium Cocoate (and) Glycerin (and) Potassium Citrate (and) Citric Acid	Surfactant	A	95.8
Bergamot Essential Oil	Citrus Bergamia Leaf Oil	Fragrance	B	0.10
Patchouli Essential Oil	Pogostemon Cablin Leaf Oil	Fragrance	B	0.10
Salt	Sodium Chloride	Viscosity Modifier	C	4.00

\*Completed formulations require certification once materials have been added

LIQUID SOAP FEATURED FORMULATION

# Natural Surface Cleaner

## COSMOS Organic\*



Product used **Liquid Soap 105**



To make a natural surface cleaner, we recommend using our Liquid Soap 105. Made with organic sunflower and coconut oils.

- » Natural
- » Effective cleaning

INGREDIENT	INCI	FUNCTION	STAGE	%W/W
Water	Aqua	Solvent	A	98.8
Liquid Soap 105	Aqua (and) Potassium Oleate (and) Potassium Cocoate (and) Glycerin (and) Potassium Citrate (and) Citric Acid	Surfactant	B	1.00
Organic Lemon Essential Oil	Citrus Limon Leaf Oil	Fragrance	C	0.20

\*Completed formulations require certification once materials have been added

LIQUID SOAP FEATURED FORMULATION

# Liquid Soap 105



Liquid Soap 105 (Liquid Castile Soap), is a natural liquid soap base made with organic coconut and sunflower oils. There is no need to dilute, and easily thickens with salt due to the high sunflower oil content. Below, we have outlined some example product applications using Liquid Soap 105 as your soap base, blended with natural surfactants.



## Make-up Brush Cleaner

Suggested ingredients:

- » Liquid Soap 105
- » Sodium Methyl Oleoyl Taurate



## Shower Gel

Suggested ingredients:

- » Liquid Soap 105
- » Cocamidopropyl Betaine



## Hard Surface Cleaner

Suggested ingredients:

- » Liquid Soap 105
- » Decyl Glucoside



## Stain Remover

Suggested ingredients:

- » Liquid Soap 105
- » Alkaline Protease (Enzyme/ Stain removal)

[Learn more about Liquid Soap 105](#)

LIQUID SOAP FEATURED FORMULATION

# Liquid Soap 100 & 101



Liquid Soap 100 & 101, are natural liquid soap bases - Liquid Soap 100 is made with organic coconut and Liquid Soap 101 is made with both organic coconut and olive oils. Below, we have outlined some example product applications using either Liquid Soap 100 & 101 as your soap base, blended with natural surfactants.



## Exfoliating Facial Scrub

Suggested ingredients:

- » Liquid Soap 100
- » Sodium Lauroyl Glycinate



## Moisturising Shave Gel

Suggested ingredients:

- » Liquid Soap 100
- » Sodium Lauryl Methylsulfonate /Cocamidopropyl Betaine



## Dish Soap

Suggested ingredients:

- » Liquid Soap 101
- » Lauryl Betaine

Can be certified 'Made With Organic' through COSMOS

[Learn more about Liquid Soap 100](#)

[Learn more about Liquid Soap 101](#)

LIQUID SOAP FEATURED FORMULATION

# Liquid Soap PK-SG



Liquid Soap PK-SG, is a liquid soap concentrate, made with 100% RSPO Certified Segregated Sustainable Palm Kernel Oil – ideal for brands looking to differentiate with sustainability claims. Below, we have outlined some example product applications using Liquid Soap PK-SG as your soap base, blended with natural surfactants.



## Kitchen & Bathroom Cleaner

Suggested ingredients:

- » Liquid Soap PK-SG
- » Cocomidopropyl Betaine



## Toilet Cleaner

Suggested ingredients:

- » Liquid Soap PK-SG
- » Cocomidopropyl Betaine

[Learn more about Liquid Soap PK-SG](#)



# Why soap is the most effective in fighting coronavirus?

👤 Agne Roke 📅 April 2020

## Washing hands with soap fights against coronavirus

One tip that has been going around from the beginning of the crisis is that of washing hands with soap. And it is for a reason that soap is the best option for personal hygiene and for fighting viruses including coronavirus, simply because soapy water destabilizes the virus components holding the coronavirus (or any other virus) together and removes it from your skin.

**Based on soap science, soap does not need to have any antibacterial additives to be effective, it is important that the hands are washed for at least 20 seconds to kill the virus on the skin<sup>1</sup>**

## Soap is the most effective against viruses

Gels, disinfectants, wipes and creams containing alcohol (and soap) are alternatives with similar effect, but not to the same effect as regular soap primarily due to destabilisation and removal properties of the virus from the skin. Alcohol-based products include all “disinfectants” and “antibacterial” products containing a high share of alcohol solution, typically 60%-80% ethanol, sometimes with a bit of isopropanol, water and a bit of soap.<sup>2</sup>

Ethanol and other types of alcohol does dissolve the lipid membrane and disrupt other supra-molecular interactions in the virus. Thus, alcohol gels and wipes are good alternatives when soap is not practical or handy and it has to contain alcohol levels of at least 60%.

Also when it comes to surfaces, the novel coronavirus is thought to stay active on favourable surfaces for hours, day or two. Viruses seem to stay on smooth surfaces for longer like wood, paper and skin and it is recommended to use soap even for easy sanitisation of surfaces as well as skin.





## What type of soap is the most effective?

Any soap - regular or artisan soap can fight viruses including coronavirus. Soaps are categorised in ionic and non-ionic. Ionic soaps derived using common surfactants are more efficient, while non-ionic milder soaps are easier on the skin, as per Eric J. Beckman, Professor of Chemical Engineering statement.<sup>3</sup>

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## Stephenson soap and surfactant bases offer effective cleansing against viruses

Stephenson offers high-quality cleansing products fighting coronavirus. Our range includes Crystal, Extruded and Liquid based products containing ionic and non-ionic surfactants.

All our soap-based products Crystal, Extruded, Syndopal and Liquid soaps are ionic and provide effective cleansing. Our Surfactant-based bodywashes and concentrates are effective as well with milder properties.

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- 1 Vox (2020) *How soap kills the coronavirus*. Available at: <https://youtu.be/-LKVUarhtvE>
- 2 Thordarson, P. (2020) 'The science of soap - here's how it kills the coronavirus', *The Guardian*, 12 March. Available at: <https://www.theguardian.com/commentisfree/2020/mar/12/science-soap-kills-coronavirus-alcohol-based-disinfectants>
- 3 Gray, E. (2020) 'Coronavirus & cleaning: Which green products are effective against viruses?' *The Philadelphia Inquirer*, 18 March. Available at: <https://www.inquirer.com/health/coronavirus/coronavirus-covid-19-do-green-cleaning-products-work-20200318.html>



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