

MASSOCARE CONCENTRATES

The easiest way to develop & manufacture Personal Care products

The **MASSOCARE** cosmetic ingredients are real **solutions** to the needs of the Personal Care community in different senses:

- ◇ Facilitate the **sourcing** of raw materials meeting industry requirements in terms of **availability, packaging, lead time**...
- ◇ Tackle handling issues concerning ingredients that are difficult to manipulate at production level. The **easy-to-handle** liquid versions of Steareth-2 and PEG-30 Dipolyhydroxystearate are some examples.
- ◇ Simplify the **choice** and the **rotation** of emollients: the **MASSOCARE EMO** emollient blends target specific functionalities and textures in one single ingredient.
- ◇ **Reduce** the **time** and the **cost** of new developments, from design to manufacturing: the **MASSOCARE Concentrates** are almost finished products.

MASSOCARE Concentrates are ready to use cosmetic bases for skin care emulsions, roll-on antiperspirants and wet wipes

MASSOCARE Concentrates are **ready to use cosmetic bases**, ideal for the design of a variety of personal care products. There are suitable for **skin care emulsions, roll-on antiperspirants and wet wipes**.

The range is made up by:

Massocare MILK3 Massocare MILK3 PF	Emulsion concentrates for creamy-gels, lotions and sprayables
Massocare C3-AP	Emulsion concentrate for antiperpirant roll-on's
Massocare WIPE60 Massocare WIPE60 PF	Emulsion concentrates for wet wipes

MASSOCARE Concentrates have been fully designed in our development & application laboratory with the aim of **simplifying the manufacturing** of certain formulations. This is possible because all **MASSOCARE Concentrates** are almost finished products: they only need to be **diluted**, and most of them can be processed in **cold conditions**. The addition of **actives, perfume, preservatives** and/or other **formulation auxiliaries** depends on the final goal of each particular formulation.

MASSOCARE Concentrates are suitable for a variety of **applications**:

- ◇ **Skin care:** Facial and Body treatments
- ◇ **Sun Care:** Sun Protection, After-sun
- ◇ **Wet Wipes:** All purpose

MASSOCARE MILK3 & MILK3 PF

o/w concentrate emulsions for creamy-gels, lotions and sprayables

DESCRIPTION

MASSOCARE MILK3 and **MASSOCARE MILK3 PF** are ready to use concentrate emulsions, ideal for the design of all types of **skin care products**, both for facial or for body treatments. Final personal care preparations can be obtained by **simple dilution** of those concentrates. Further addition of **thickeners**, **actives**, **perfume** and/or **preservatives** will depend of the final requirement of each individual project.

PRODUCTS SUMMARY

	MASSOCARE MILK 3	MASSOCARE MILK 3 PF
INCI Name	Caprylic/capric Triglyceride, Triethylhexanoin, Glycerin, Polyperfluoroethoxymethoxy Difluoroethyl PEG Phosphate	
Appearance	White glossy fluid emulsion	
Preservative	Propylene glycol, Diazolidinyl Urea, Methylparaben, Propylparaben	Benzyl Alcohol, Salicylic Acid, Glycerin, Sorbic Acid (<i>paraben-free</i>)



FEATURES & BENEFITS

- ◇ Final **oil** content: **13,4 %**
- ◇ **Cost effective system:**
 - ◇ Simplifies **logistics** and **handling** as you have almost your finished formulation in one single ingredient
 - ◇ Energy saving: **cold process**
- ◇ **Excellent cosmetic feel** with superior **emolliency**, which is provided by the esters in the oil phase
- ◇ Skin **moisturising** thanks to the presence of glycerine
- ◇ The emulsifier has also very powerful film forming properties, and thus, contributes to **skin protection**
- ◇ **Flexible system**, compatible with a broad range of personal care ingredients. Even alcohol can be added without influencing the final viscosity.

FORMULATION TIPS

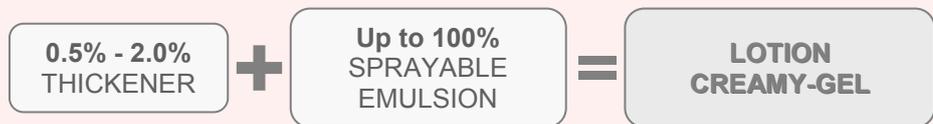
With **MASSOCARE MILK3** and **MASSOCARE MILK3 PF** you can formulate **sprayable emulsions** in only **1 step**. If you want to obtain **lotions** or **creamy-gels** you will need to follow a **2 steps** procedure. This is very simple:

◇ STEP 1 - Dilution 1:2



1. Add water to Massocare Milk whilst stirring
2. Homogenise mixture for 2 minutes (Silverson: 3.000 rpm)
3. Stir for 20-30 minutes

◇ STEP 2 - Built viscosity



1. Add the thickener to your sprayable emulsion whilst stirring moderately
2. Homogenise the mixture for 2 minutes (Silverson: 3.000 rpm)
3. Adjust final pH (5.5 - 6.5), if it is necessary
4. Stir at 100-200 rpm during 30 minutes, minimum

◇ Additional information

✓ Preservation

The preservative system of **MASSOCARE MILK3** has proven to be enough to preserve both, the concentrate and its corresponding dilution.

The preservative system of **MASSOCARE MILK3 PF** is enough to preserve the concentrate but additional preservative has to be added to the solution. Recommendation: 0.6% Geogard ECT (LONZA)

✓ Thickening

Recommended products:

MASSOCARE TCK A1

(INCI: Sodium Polyacrylate, Paraffinum Liquidum, Trideceth-6)

MASSOCARE TCK A5

(INCI: Sodium Polyacrylate, Hydrogenated Polydecene, Trideceth-6)

MASSOCARE TCK1

(INCI: Carbomer)

MASSOCARE MILK3 & MILK3 PF

o/w concentrate emulsions for
creamy-gels, lotions and sprayables

MASSOCARE WIPE60 & WIPE60 PF

o/w concentrate *macroemulsions*
for wet wipes

DESCRIPTION

MASSOCARE WIPE60 and **MASSOCARE WIPE60 PF** concentrate *macroemulsions* can be **easily diluted** to obtain a liquid ready for **wet wipes impregnation**. As the system is a *macroemulsion* the oil is quickly and easily delivered onto the skin, enhancing the **cleansing properties** of the formulation.

PRODUCTS SUMMARY

	MASSOCARE WIPE60	MASSOCARE WIPE60 PF
INCI Name	Aqua, Isopropyl Isostearate, Triethylhexanoin, Glycerin, Steareth-100, Steareth-2	
Appearance	White, shiny viscous cream	
Preservative	Phenoxyethanol, Methylparaben, Propyl-paraben, 2-Bromo-2-Nitropropane-1,3-diol	Caprylyl Glycol, Glyceryl Caprylate, Dipropylene Glycol (<i>paraben-free</i>)

FEATURES & BENEFITS

- ◇ **Excellent cleansing efficacy.** As already mentioned above our systems are *macroemulsions*, thus the oil droplets are bigger than the ones in *nanoemulsions*, the most common ones in wet wipes, where the oil is trapped into the system. By working with *macroemulsions*, the oil is more easily delivered onto the skin and the cleansing properties are enhanced. **MASSOCARE WIPE60** and **MASSOCARE WIPE60 PF** are ideal solutions for make-up removers, even those which claim to be long-lasting and extremely resistant make-up's.
- ◇ **Formulation Flexibility.** Our concentrates are compatible with a broad range of oils, independently of their pola-arity, allowing the cosmetic formulator to adjust the sensorial properties of the final product. Oil soluble actives can be also added to the formulation without problems.
- ◇ The emollients in **MASSOCARE WIPE60** and **MASSOCARE WIPE60 PF** (Triethylhexanoin, Isopropyl Isostearate) provide a **non-tacky** and **light feeling**, as well as **easy spreading**. They deliver also **moisturising** properties.
- ◇ **MASSOCARE WIPE60** and **MASSOCARE WIPE60 PF** have a **thixotropic behaviour**. This means that the emulsions have a very low viscosity while they are handled in order to impregnate the wipes, but when shear force stops, the viscosity increases immediately and the products get fixed to the wipe.

FORMULATION TIPS

MASSOCARE WIPE60 and **MASSOCARE WIPE60 PF** can be easily diluted by simply **adding water under stirring**, there is no need to homogenise. Depending on the requirements of the final product, we suggest **two levels of dilution**:

◇ Dilution 1:9



◇ Dilution 1:10



◇ Additional information

✓ Preservation

The preservative system of **MASSOCARE WIPE60** has proven to be enough to preserve the concentrate, its corresponding dilution, and the impregnated wipes.

The preservative system of **MASSOCARE WIPE60 PF** is enough to preserve the concentrate but the dilution requires the addition of preservative. Recommendation: ≤0.3% Cosphaderm Dicapó (COSPATEC)

The preservation of the finished wipes is to be checked and fixed, case by case, by the wipes manufacturer.

✓ Stability

We have tested the stability of the suggested dilutions and the results overpass the usual requirements in this type of application: both are **stable 1 week at room temperature**.

MASSOCARE WIPE60 & WIPE60 PF

o/w concentrate *macroemulsions*
for wet wipes

MASSOCARE C3-AP

o/w concentrate antiperspirant emulsion
for roll-on applications

DESCRIPTION

MASSOCARE C3-AP is a concentrate emulsion that contains all the ingredients (**active and excipients**) needed to formulate a roll-on antiperspirant. It is converted into **commercial antiperspirant roll-on emulsions** only by **diluting** it in **water**.

PRODUCTS SUMMARY

	MASSOCARE C3-AP
INCI Name	Aqua, Aluminum Sesquichlorhydrate, PPG-15 Stearyl Ether, Steareth-2, Steareth-21
Appearance	White viscous emulsion
Preservative	Preservative-free

FEATURES & BENEFITS

◇ The ACTIVE:

Aluminum Sesquichlorhydrate, second generation. We have chosen a **Enhanced Efficacy Aluminum Chlorohydrate antiperspirant active**, as this type of products provide statistically significant superior sweat inhibition performance compared to the standard products. Increased efficacy is due to reduction in the aluminium polymer molecular weight distributions compared to the standard materials.

◇ The SYSTEM:

Steareth-2 and **Steareth-21** in combination with **PPG-15 Stearyl Ether**. A well known and highly appreciated network in the development of emulsion antiperspirants. This system, which can be classed as a "traditional" one for this specific type of products, provides

- ◇ ideal sensorial properties: **light, non-tacky feel and excellent spreadability**
- ◇ guaranteed **stability**



FORMULATION TIPS

MASSOCARE C3-AP is always used at **20%**. Depending on the target cost and the required efficacy of the final products, it can be used **alone**, just diluted in water, or in combination with **additional antiperspirant active**. Both options are described below:

◇ Option 1:



1. Heat MASSOCARE C3 - AP and half of the water separately to approx. 60-70°C
2. Add warm water to Massocare C3 - AP whilst stirring moderately
3. Homogenise the mixture for 2 minutes (Silverson: 3.000 rpm)
4. Let the mixture cool down to room temperature and add the remaining water whilst stirring moderately
5. Leave stirring for 20-30 minutes

◇ Option 2



1. Heat MASSOCARE C3 - AP and double volume of water separately to approx. 60-70°C
2. Add warm water to Massocare C3 - AP whilst stirring moderately
3. Homogenise the mixture for 2 minutes (Silverson: 3.000 rpm)
4. Let the mixture cool down to room temperature
5. Dilute Reach 301 L with the remaining water and add it to and the previous mixture whilst stirring moderately
6. Leave stirring for 20-30 minutes

◇ Additional information

✓ Stability

The concentrate as well as the prototype formulations have reported excellent stability results after 3 months at room temperature and at 40°C

✓ Reach 301 L

Aluminum Sesquichlorohydrate 50% Solution, SUMMIT-REHEIS

www.cqmasso.com/fcr

MASSOCARE C3-AP

o/w concentrate antiperspirant emulsion
for roll-on applications

www.cqmasso.com/fcr

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