

Compliant with JSQI

UNIGLY™ MC-208

 NOF CORPORATION

1 What is UNIGLY MC-208 ?

UNIGLY MC-208 is a nonionic surfactant with medium chain partial glycerides whose fatty acids are derived from vegetable oil.

UNIGLY MC-208 can provide your formulation with

”Refreshing & Emollient feeling”, that’s why it is suitable for rinse off products.

INCI**PEG-8 CAPRYLIC/CAPRIC GLYCERIDES****Concept***Refreshing & Emollient Agent*

2 Characteristics & Properties

- ① Caprylic and Capric acid are derived from vegetable oil.
- ② Transparent liquid, and low freezing point (under 10℃) provides your products with high stability in low temperature.
- ③ Water-soluble more than 3.0wt% (HLB=15, Griffin) .
- ④ Refresh feeling when washing off.
- ⑤ Provide high cleansing efficacy with Water-based Make-up cleansing.
- ⑥ Enhancing cleansing efficacy in combination with water-soluble polymers (patent applied for).
- ⑦ Provide emollient feeling after washing off.

Head Office

Yebisu Garden Place Tower, 20-3 Ebisu 4-chome, Shibuya-ku, Tokyo 150-6012
TEL: +81-3-5424-6704 FAX: +81-3-5424-6810 <http://www.nof.co.jp/>

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Solubility (25°C)

<u>Solvent</u>	<u>10%</u>	<u>25%</u>
Ethanol	○	○
1,3-BG	○	○
Glycerin	×	×
PEG # 400	○	○
Oleic acid	○	○
Oleyl alcohol	○	○
Caprylic/Capric triglyceride	×	×
Octyl palmitate	×	×
Cyclomethicone	×	×
Mineral oil	×	×
Water	○	○

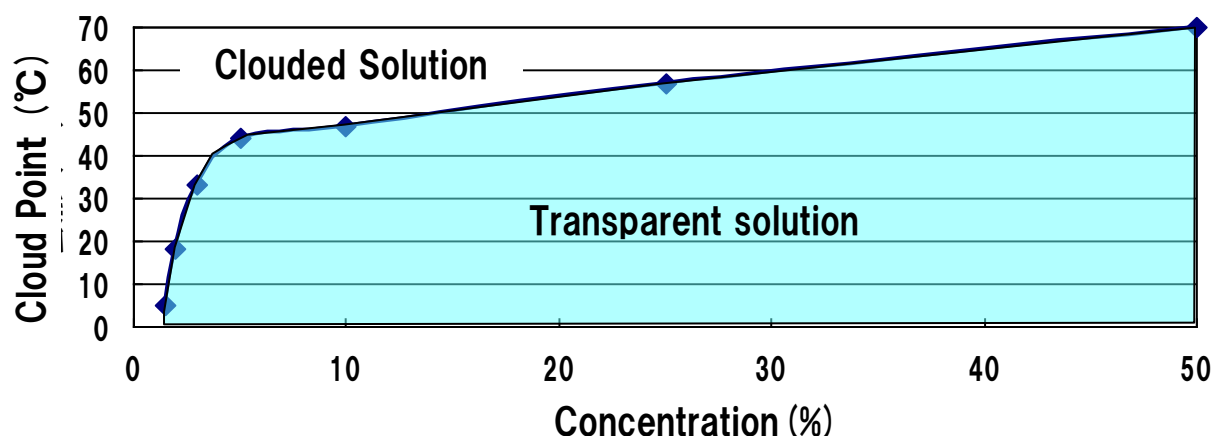
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Cloud point

UNIGLY MC-208 is a PEG type nonionic surfactant with cloud point.
Less than 2.0wt% water solution is clouded at room temperature.

Concentration (wt%)	1.0	1.5	2.0	3.0	5.0	10	25	50
Cloud point	3 ↓	5	18	33	44	47	57	70

*representative data



5 Cleansing test

Method

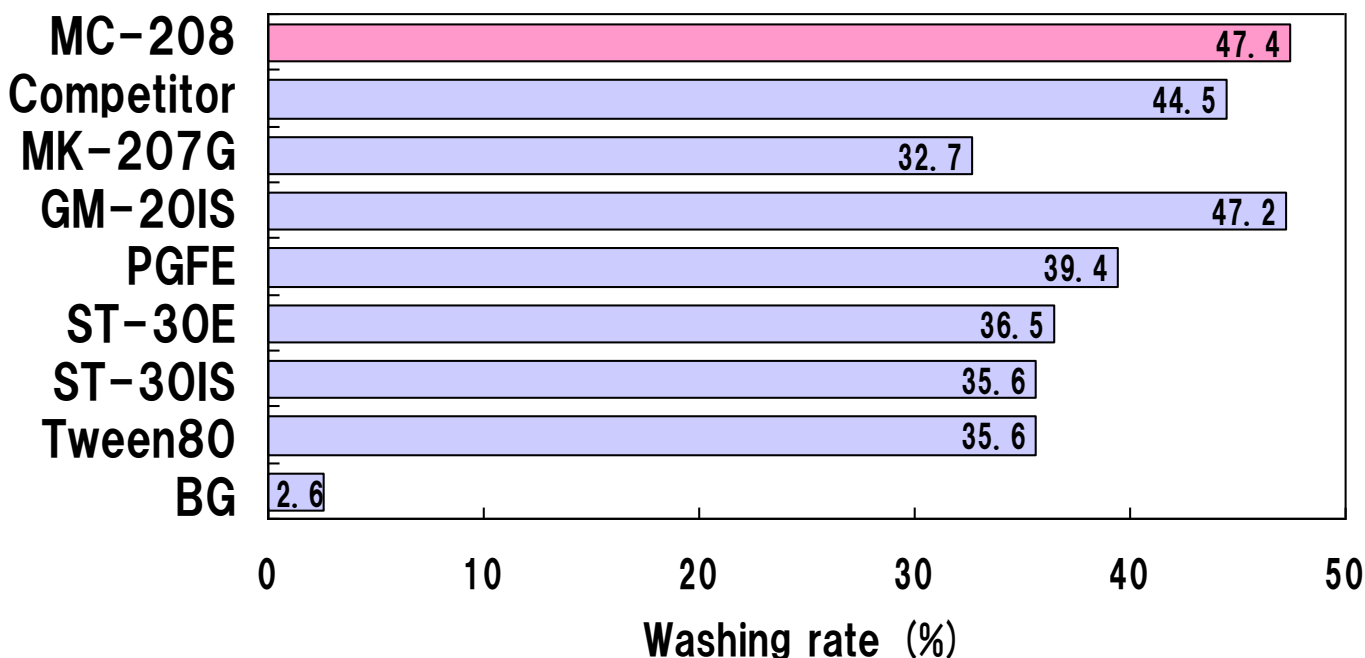
- ① Spread commercial lipstick 5mg (1cm diameter) on artificial leather.
- ② Prepare 5% water-solution of each nonionic surfactant.
- ③ Put prepared solution 60mg on lipstick, then spread circular and washing off.
- ④ Measure red light strength and calculate washing rate by the following equation.

$$\text{Washing rate (\%)} = (1 - a/a_0) \times 100$$

* a_0 : Red light strength before washing off.

a: Red light strength after washing off

Results



Samples	INCI	HLB
MC-208	PEG-8 CAPRYLIC/CAPRYL GLYCERIDES	15
Competitor	PEG-6 CAPRYLIC/CAPRYL GLYCERIDES	15
MK-207G	PEG-7 GLYCERYL COCOATE	13
GM-20IS	PEG-20 GLYCERYL ISOSTEARATE	15
PGFE	POLYGLYCERYL-10 LAURATE	15
ST-30E	SORBETH-30 TETRAOLEATE	11
ST-30IS	SORBETH-30 TETRAISOSTEARATE	11
Tween80	POLYSORBATE 80	15
BG	1,3-BG	—

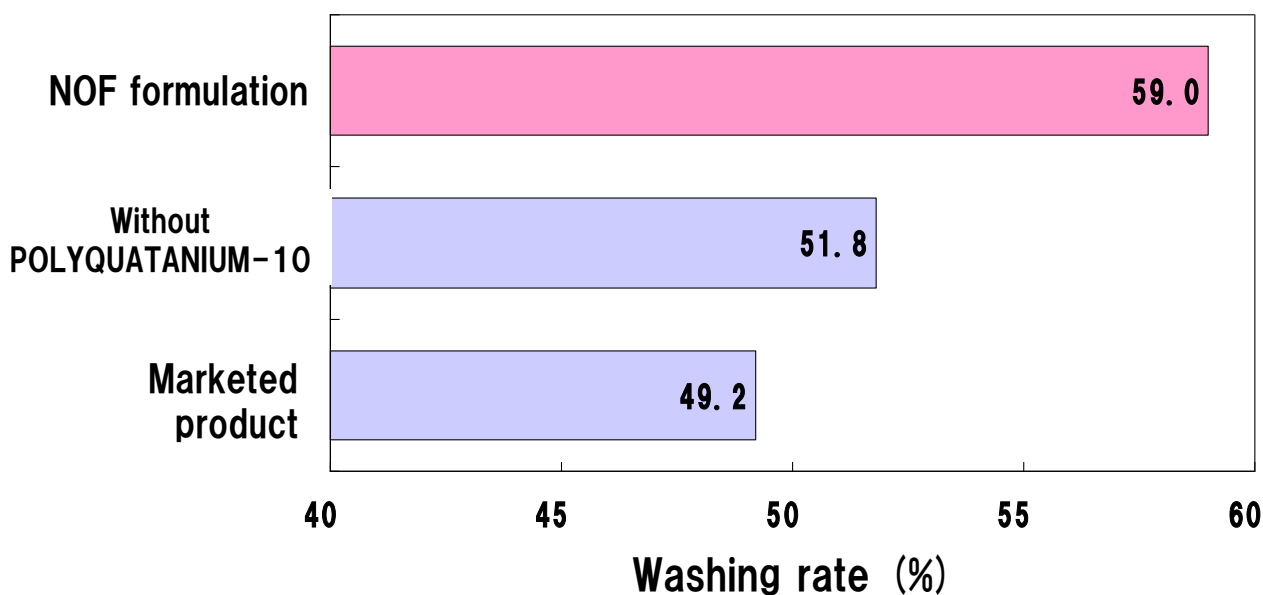
Cleansing Water

INCI	NOF Products	wt%
PEG-8 CAPRYLIC/CAPRYL GLYCERIDES	UNIGLY MC-208	3.0
PEG/PPG/POLYBUTYLENEGLYCOL -8/5/3 GLYCERIN, TOCOPHEROL	WILBRIDE S-753D	2.0
BG	—	5.0
PEG-20 GLYCERYL ISOSTEARATE	UNIOX™ GM-20IS	0.5
POLYQUATANIUM-10	—	0.1
pH adjuster、preservative	—	q.s.
WATER	—	Balance

PROCEDURE : Mix and dissolve all ingredients at room temperature.

※The safety and intellectual property right are not guaranteed.

Cleansing test



※ Same method as previous page.