Cosmetics General Catalog

From the Biosphere to Outer Space

NOF CORPORATION

From the Biosphere to Outer Space

Cosmetic Solution Designer

Material design Technology

X
Application Technology

NOF supports your development through our Technology

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· Chinasa INCL is ha	sed on "[202]版 日使田化妆品原料名称目錄	L "		

<sup>Chinese INCI is based on "「2021版_已使用化妆品原料名称目録」".
Some of additional ingredients are not listed in this catalog.
Natural Origin Index (N.O.I.) is calculated by carbon method or molecular method.</sup>

About Us

From the Biosphere to Outer Space

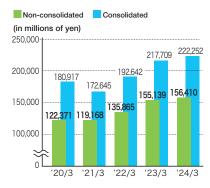
NOF CORPORATION is a chemical manufacturer that provides products in a wide variety of fields, ranging from the biosphere to outer space.

Established June 1, 1937 Net Sales \$1.53 billion

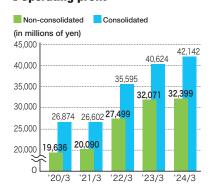
Operating profit \$290 million as of March, 2024 *Exchanging rate 145JPY/USD

Net Sales

Sales

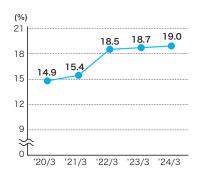


Operating profit



*Exchanging rate 145JPY/USD





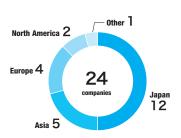
Net sales



Number of Group employees



Number of Group companies



Our Products and Technology ECO Products



NOF CORPORATION'S Eco-friendly Products

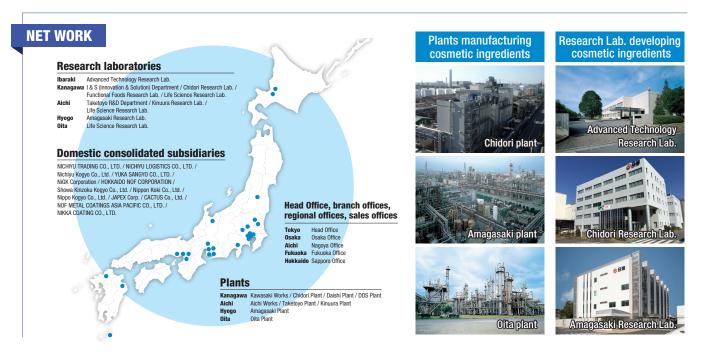
Based on its technologies and experiences built up over the years, NOF CORPORATION continues to develop eco-friendly products.

Contribution to the SDGs

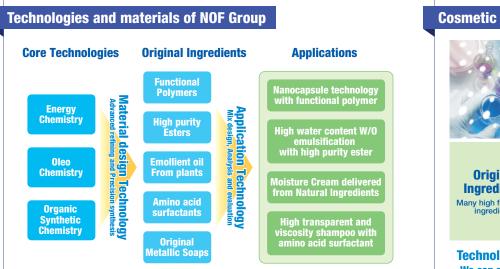
NOF CORPORATION aims to contribute to SDGs through initiatives for materiality as presented in the table below.

Response to climate change

By recognizing the risks and opportunities posed by climate change and promoting countermeasures, NOF CORPORATION will co-create new value with the power of chemistry toward the realization of a prosperous and sustainable society.

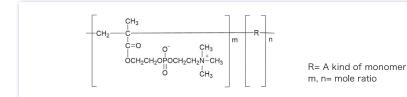








01 | Functional ingredient

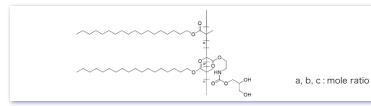


LIPIDURE®

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
1:::1 ® DMD	POLYQUATERNIUM-51	聚季铵盐 -51	125275-25-4	5	0.05
Lipidure®-PMB	WATER	水	7732-18-5	95	0.95
Lipidure®-PMB(BG)	POLYQUATERNIUM-51	聚季铵盐 -51	125275-25-4	3.5	
	WATER	水	7732-18-5	66.5	0.67
	BUTYLENE GLYCOL	丁二醇	107-88-0	30	
	POLYQUATERNIUM-51	聚季铵盐 -51	125275-25-4	5	
Lipidure®-PMB(Ph10)	WATER	水	7732-18-5	94	0.94
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1	
	POLYQUATERNIUM-51	聚季铵盐 -51	125275-25-4	5	
Lipidure®-PMB(Ph10)-1M	WATER	水	7732-18-5	94	0.94
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1	
	POLYPHOSPHORYLCHOLINE GLYCOL ACRYLATE	聚磷酸胆碱 乙二醇丙烯酸酯	67881-99-6	40	
Lipidure®-HM	WATER	水	7732-18-5	54.85	0.55
	BUTYLENE GLYCOL	丁二醇	107-88-0	5	
	METHYLPARABEN	羟苯甲酯	99-76-3	0.15	
	POLYPHOSPHORYLCHOLINE GLYCOL ACRYLATE	聚磷酸胆碱 乙二醇丙烯酸酯	67881-99-6	39.6	0.59
Lipidure®-HM(Ph10)	WATER	水	7732-18-5	59.4	
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1	
	POLYPHOSPHORYLCHOLINE GLYCOL ACRYLATE	聚磷酸胆碱 乙二醇丙烯酸酯	67881-99-6	5	0.90
Lipidure®-HM-500	BUTYLENE GLYCOL	丁二醇	107-88-0		
•	METHYLPARABEN	羟苯甲酯	99-76-3	0.15	
	WATER	水	7732-18-5	89.85	
Lipidure®-S	POLYQUATERNIUM-61	聚季铵盐 -61	144514-08-9	100	Contact us
	POLYQUATERNIUM-61	聚季铵盐 -61	144514-08-9	5	
Lipidure®-NR	GLYCERIN	甘油	56-81-5	47.5	-
	BUTYLENE GLYCOL	丁二醇	107-88-0	47.5	
	POLYQUATERNIUM-61	聚季铵盐 -61	144514-08-9	1	
	GLYCERIN	甘油	56-81-5	9.5	
Lipidure®-NA	BUTYLENE GLYCOL	丁二醇	107-88-0	9.5	0.90
	PCA ETHYL COCOYL ARGINATE	PCA 椰油酰精氨酸乙酯盐	95370-65-3	0.25	
	WATER	水	7732-18-5	79.75	
Lipidure®-MS-FB	POLYACRYLATE-47	-	-	50	Contact
*Prototype	ALCOHOL	乙醇	64-17-5	50	us
	POLYQUATERNIUM-65	聚季铵盐 -65	649747-63-7	5	
Lipidure®-A	PHENOXYETHANOL	苯氧乙醇	122-99-6	1	0.94
	WATER	水	7732-18-5	94	-
	POLYQUATERNIUM-51	聚季铵盐 -51	125275-25-4	5	601
Lipidure®-B-PF	WATER	水	7732-18-5	95	0.94



Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
Lipidure® -C	POLYQUATERNIUM-64	聚季铵盐 -64	478015-82-6	5	
	WATER	水	7732-18-5	94	0.94
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1	
	POLYQUATERNIUM-107		1379467-09-0	1	0.98
	PHENOXYETHANOL	-	122-99-6	1	
Alfeel®-SD	CITRIC ACID		5949-29-1	0.006	
	SODIUM CITRATE		6132-04-3	0.004	
	WATER		7732-18-5	97.99	



CERACUTE®

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
Ceracute®-F	GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER	甘油酰胺乙醇 甲基丙烯酸酯 / 硬脂醇甲基丙烯酸 酯共聚物	934371-81-0	100	-
Ceracute®-L	GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER	甘油酰胺乙醇 甲基丙烯酸酯 / 硬脂醇甲基丙烯酸 酯共聚物	934371-81-0	5	0.67
ocraodio E	GLYCERIN	甘油	56-81-5	66.5	0.07
	BUTYLENE GLYCOL	丁二醇	107-88-0	28.5	
Ceracute®-LL	GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER	甘油酰胺乙醇 甲基丙烯酸酯 / 硬脂醇甲基丙烯酸酯共聚物	934371-81-0	5	0.67
Cordouto EE	GLYCERIN	甘油	56-81-5	66.5	0.57
	BUTYLENE GLYCOL	丁二醇	107-88-0	28.5	
	POLYQUATERNIUM-92		1083195-17-8	3.5	
Ceracute® -G	BUTYLENE GLYCOL		107-88-0	30	0.67
Ceracute ^s -G	CITRIC ACID	-	5949-29-1	0.005	0.67
	WATER		7732-18-5	66.495	
	GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER	甘油酰胺乙醇 甲基丙烯酸酯 / 硬脂醇甲基丙烯酸 酯共聚物	934371-81-0	1	
Ceracute [®] -V	GLYCERIN	甘油	56-81-5	13.3	
	BUTYLENE GLYCOL	丁二醇	107-88-0	5.7	0.93
	PCA ETHYL COCOYL ARGINATE	PCA 椰油 酰精氨酸乙酯盐	95370-65-3	0.25	
	WATER	水	7732-18-5	79.75	

MACBIOBRIDE®

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
MACB I OBR I DE *SP *Prototype	POLY(1,2-BUTANEDIOL) -55/PEG-90 PENTAERYTHRITYLETHER	Contact us	191549-26-5	100	-

02 Moisturizer

CH₂-OH | CH-OH | CH₂-OH

Glycerin

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
$RG \cdot CO \cdot P$	GLYCERIN	甘油	56-81-5	100	1.00
Keshoyou Glycerin 85-S	GLYCERIN	甘油	56-81-5	85	1.00
	WATER	水	56-81-5	15	1.00

 $HO-(C_2H_4O)_n-H$

n= The number of ethylene oxide moles

Polyethers

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
PEG#200	PEG-4	聚乙二醇 -4	25322-68-3	100	-
PEG#300	PEG-6	聚乙二醇 -6	25322-68-3	100	-
PEG#400	PEG-8	聚乙二醇 -8	25322-68-3	100	-
PEG#600	PEG-12	聚乙二醇 -12	25322-68-3	100	-
PEG#1000	PEG-20	聚乙二醇 -20	25322-68-3	100	-
PEG#1500	PEG-6	聚乙二醇 -6	25322-68-3	50	
PEG#1500	PEG-32	聚乙二醇 -32	25322-68-3	50	_
PEG#1540	PEG-32	聚乙二醇 -32	25322-68-3	100	-
PEG#2000	PEG-40	聚乙二醇 -40	25322-68-3	100	-
PEG#4000	PEG-75	聚乙二醇 -75	25322-68-3	100	-
PEG#6000	PEG-150	聚乙二醇 -150	25322-68-3	100	-
PEG#6000P	PEG-150	聚乙二醇 -150	25322-68-3	100	-
PEG#11000	PEG-240	聚乙二醇 -240	25322-68-3	100	-
PEG#20000	PEG-400	聚乙二醇 -400	25322-68-3	100	-

$$\begin{array}{c} \text{CH}_2\text{O} - (\text{C}_2\text{H}_4\text{O})_n - \text{H} \\ | \\ \text{CH} - \text{OH} \\ | \\ \text{CH}_2 - \text{OH} \end{array}$$
 n= The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.	
GLYMOIST® ME-26 *Prototype	GLYCERETH-26	甘油聚醚 -26	Contact us	100	-	

 $RO + (C_2H_4O)_m(C_3H_6O)_n + H$

R= Alkyl part
[] Block or Ramdam

m=The number of ethylene oxide moles n= The number of proplylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
ACROBUTE® 60MB-63	PPG-28-BUTETH-35	PPG-28- 丁醇聚醚 -35	9038-95-3	100	-
WILBRIDE® BS-03	PPG-7-BUTETH-10	PPG-7- 丁醇聚醚 -10	9038-95-3	100	-
UNILUBE® 50MB-11	PPG-10-BUTETH-9	PPG-10- 丁醇聚醚 -9	Contact us	100	-
UNILUBE® 50MB-26	PPG-17-BUTETH-17	PPG-17- 丁醇聚醚 -17	Contact us	100	-
UNILUBE® 50MB-72	PPG-30-BUTETH-30	PPG-30- 丁醇聚醚 -30	Contact us	100	-

 $\ \ \, \stackrel{\mathsf{CH}_2\mathsf{O}}{+} (\mathsf{C}_2\mathsf{H}_4\mathsf{O})_{\mathsf{a}} (\mathsf{C}_3\mathsf{H}_6\mathsf{O})_{\mathsf{x}} + \mathsf{H}$

[] Ramdam

CHO—(C₂H₄O)_b(C₃H₆O)_y+H $CH_2O+(C_2H_4O)_c(C_3H_6O)_z+H$

m=The number of ethylene oxide moles =a+c n=The number of proplylene oxide moles =b

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNILUBE® 50TG-32	PPG-24-GLYCERETH-24	PPG-24- 甘油聚醚 -24	9082-00-2	100	-

 ${\stackrel{\scriptstyle \mathsf{C}}{\mathsf{H}}}_2{\mathsf{O}} + {\stackrel{\scriptstyle \mathsf{L}}{\mathsf{L}}}({\mathsf{C}}_2{\mathsf{H}}_4{\mathsf{O}})_a ({\mathsf{C}}_3{\mathsf{H}}_6{\mathsf{O}})_h + {\stackrel{\scriptstyle \mathsf{L}}{\mathsf{L}}}({\mathsf{C}}_4{\mathsf{H}}_8{\mathsf{O}})_x - {\mathsf{H}}$

 $CHO - (C_2H_4O)_b(C_3H_6O)_i - (C_4H_8O)_y - H_1$ $^{\text{L}}_{\text{CH}_2\text{O}} + (\text{C}_2\text{H}_4\text{O})_{\text{c}}(\text{C}_3\text{H}_6\text{O})_{\text{j}} + (\text{C}_4\text{H}_8\text{O})_{\text{z}} + \text{H}_6\text{O}_{\text{c}}$

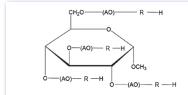
The number of ethylene oxide moles =a+b+c=8 The number of proplylene oxide moles =h+i+j=5

The number of buthylene oxide moles =x+y+z=3

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
WILBRIDE® S-753	PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN	PEG/PPG/ 聚丁二醇 -8/5/3 甘油	220144-83-2	100	-
WILBRIDE® S-753D	PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN	PEG/PPG/ 聚丁二醇 -8/5/3 甘油	220144-83-2	100*	-

* (Tocopherol 200ppm)

02 Moisturizer



AO = Ethyllene Oxide, R = nothing

or

AO = Proplylene Oxide, R = nothing

AO = Ramdam of Ethyllene Oxide and Proplylene Oxide, R =Butlylene Oxide

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
WILBRIDE® MG-2070R	POLY(1,2-BUTANEDIOL)-4 PEG/ PPG-29/9 METHYL GLUCOSE	Contact us	1436713-43-7	100	-
MACBIOBRIDE® MG-10E	METHYL GLUCETH-10	甲基葡糖醇聚醚 -10	53026-67-8	100	-
MACBIOBRIDE® MG-20E	METHYL GLUCETH-20	甲基葡糖醇聚醚 -20	53026-67-8	100	-
MACBIOBRIDE® MG-10P	PPG-10 METHYL GLUCOSE ETHER	PPG-10 甲基葡糖醚	52673-60-6	100	-
MACBIOBRIDE® MG-20P	PPG-20 METHYL GLUCOSE ETHER	PPG-20 甲基葡糖醚	52673-60-6	100	-

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
WILBRIDE® R-PL	PPG-2 ARGININE		1232775-53-9	40	0.70
	LACTIC ACID	-	598-82-3	10	
	WATER		7732-18-5	50	

Polyethers derivered from Natural

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NATUWIL® TP-01 *Prototype	PROPANEDIOL/TRIETHYLENE GLYCOL COPOLYMER	-	Contact us	100	1.00



BIOLEAM

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
BIOLEAM®-A	C9-12 ALKANE	C9-12 烷	93924-07-3	99	1.00
BIOLEAWIS-A	C14-22 ALCOHOLS	C14-22 醇	84539-77-5	1	1.00
	C9-12 ALKANE	C9-12 烷	93924-07-3	51.5	
BIOLEAM®-L	C13-15 ALKANE	C13-15 烷	93924-07-3	47.5	1.00
	C14-22 ALCOHOLS	C14-22 醇	84539-77-5	1	
BIOLEAM®-EL *Prototype	C14-22 ALCOHOLS	C14-22 醇	84539-77-5	100	1.00
BIOLEAM®-S	C9-12 ALKANE	C9-12 烷	93924-07-3	35	0.935
*Prototype	POLYDECENE	聚癸烯	25189-70-2	65	0.935
BIOLEAM®-R *Prototype	POLYDECENE	聚癸烯	25189-70-2	100	0.9

$$CH_{3}-C\\ -CH_{3}\\ -CH_{3}\\ -CH_{2}-C\\ -CH_{3}\\ -CH_{3}\\ -CH_{2}-CH_{3}\\ -CH_{2}-CH_{3}\\ -CH_{3}\\ -C$$

n= The number of isobuten moles

Hydrocarbon

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
PARLEAM® BH-300P	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68937-10-0	100	-
PARLEAM® 3	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68551-17-7	100	-
PARLEAM® 4	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68551-20-2	100	-
PARLEAM® EX	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68937-10-0	100	-
PARLEAM® 6	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68937-10-0	100	-
PARLEAM® 18	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68937-10-0	100	-
PARLEAM® 24	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68937-10-0	100	-
PARLEAM® 46	HYDROGENATED POLYISOBUTENE	氢化聚异丁烯	68937-10-0	100	-

R= Fatty acid part R'= Alkyl part

Ester

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
IPM®-R	ISOPROPYL MYRISTATE	肉豆蔻酸异丙酯	110-27-0	100	0.78
NOFABLE® EO-85S	ETHYL OLEATE	油酸乙酯	111-62-6	100	0.85
CLEARBRIGHT® E-81S	ETHYL OLEATE	油酸乙酯	111-62-6	100	0.85

03/oil

R= Fatty acid part

Ester

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
PANACET® 800B	TRIETHYLHEXANOIN	甘油三(乙基己酸)酯	7360-38-5	100	-
PANACET® 810S	CAPRYLIC/CAPRIC TRIGLYCERIDE	辛酸 / 癸酸甘油三酯	65381-09-1	100	1.00

$$\overset{O}{\underset{\mathsf{RCO}}{\parallel}}-(C_3H_6O)_n-H$$

RCO= Fatty acid part

n= The number of proplylene oxide moles

Polyethers

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.	
UNIOL® D-1200	PPG-20	聚丙二醇 -20	25322-69-4	100	-	

a, b: The number of butlylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNIOL® PB-700	POLYBUTYLENE GLYCOL/PPG- 9/1 COPOLYMER	聚丁二醇 /PPG-9/1 共聚物	31923-86-1	100	-

 $RO - (C_2H_4O)_m(C_3H_8O)_n + H$

R= Alkyl part [] Block or Ramdam

m= The number of ethylene oxide moles n= The number of proplylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
ACROBUTE® MB-52	PPG-52 BUTYL ETHER	PPG-52 丁醚	9003-13-8	100	-
ACROBUTE® MB-90	PPG-90 BUTYL ETHER	-	9003-13-8	100	-
UNILUBE® MB-11	PPG-17 BUTYL ETHER	PPG-17 丁醚	Contact us	100	-
UNILUBE® MB-22	PPG-24 BUTYL ETHER	PPG-24 丁醚	Contact us	100	-
UNILUBE® MB-370	PPG-40 BUTYL ETHER	PPG-40 丁醚	Contact us	100	-
UNILUBE® MB-700	PPG-52 BUTYL ETHER	PPG-52 丁醚	Contact us	100	-
UNILUBE® MS-70K	PPG-15 STEARYL ETHER	PPG-15 硬脂醇醚	25231-21-4	100	-

The number of proplylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNIOL® SGP-65	PPG-8 GLYCERYL ETHER	-	25791-96-2	100	-

$$\begin{array}{c} {\rm CH_2O-(C_3H_6O)_a-H} \\ {\rm -} \\ {\rm CHO-(C_3H_6O)_b-H} \\ {\rm CH_2} \\ {\rm -} \\ {\rm -} \\ {\rm -} \\ {\rm -} \end{array}$$

The number of proplylene oxide moles

ĊH₂ CHO—(C₃H₆O)_c—H CH₂O-(C₃H₆O)_d-H

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNILUBE® DGP-700	PPG-9 DIGLYCERYL ETHER	PPG-9 二聚甘油醚	61710-63-2	100	-

04/Nonion

 $HO-(C_2H_4O)_a-(C_3H_6O)_b-(C_2H_4O)_c-H$

a, c : The number of ethylene oxide moles

b : The number of proplylene oxide moles

Polyethers

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
PLONON® #204	PEG/PPG-30/33 COPOLYMER	PEG /PPG-30/33 共聚物	9003-11-6	100	-
PLONON® #208	PEG/PPG-150/35 COPOLYMER	-	9003-11-6	100	-
UNILUBE® 70DP-950B	PEG/PPG-200/70 COPOLYMER	PEG /PPG-200/70 共聚物	9003-11-6	100	-

 $RO-(C_2H_4O)_n-H$

R= Alkyl or Alkenyl Part

n= The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NONION T-208.5	TRIDECETH-8	-	78330-21-9	100	-
	LAURETH-100		68439-50-9	50	
NONION K-2100W	WATER	-	7732-18-5	49	0.51
	PHENOXYETHANOL		122-99-6	1	
	STEARETH-200	硬脂醇聚醚 −200	68154-96-1	50	
NONION S-2200W	WATER	水	7732-18-5	47.5	0.50
*Prototype	PENTYLENE GLYCOL	1,2- 戊二醇	5343-92-0	1.5	0.50
	ETHYLHEXYLGLYCERIN	乙基己基甘油	70445-33-9	1	
NONION P-210	CETETH-10	鲸蜡醇聚醚 -10	9004-95-9	100	-
NONION P-213	CETETH-13	鲸蜡醇聚醚 -13	9004-95-9	100	-
NONION S-202	STEARETH-2	硬脂醇聚醚 -2	68439-49-6	100	0.75
NONION E-202S	OLETH-2	油醇聚醚 -2	9004-98-2	100	0.75
NONION E-205S	OLETH-5	油醇聚醚 -5	9004-98-2	100	0.55
NONION B-220	BEHENETH-20	山嵛醇聚醚 -20	69227-20-9	100	-

 $RO + (C_2H_4O)_m(C_3H_6O)_n + H$

R= Alkyl part [] Block or Ramdam

m= The number of ethylene oxide moles n= The number of proplylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
SOLUBULE® BR-02	PPG-30-BUTETH-30	PPG-30- 丁醇聚醚 -30	9038-95-3	100	-
SOLUBULE® GS-01	PPG-13-DECYL	PPG-13-	72484-69-6	97	
SOLUBULE GS-01	TETRADECETH-24	癸基十四醇聚醚 -24	7732-18-5	3	-
SOLUBULE® GS-01P	PPG-13-DECYL	PPG-13-	72484-69-6	97	
SOLUBULE GS-01P	TETRADECETH-24	癸基十四醇聚醚 -24	7732-18-5	3	_
UNISAFE® 10P-8	PPG-8-CETETH-10	PPG-8- 鲸蜡醇聚醚 -10	37311-01-6	100	-
UNISAFE® 20P-8	PPG-8-CETETH-20	PPG-8- 鲸蜡醇聚醚 -20	37311-01-6	100	-
UNILUBE® 10MS-250KB	PPG-34-STEARETH-3	-	68002-96-0	100	-
UNILUBE® 20MT-2000B	PPG-20-DECYL TETRADECETH-10	PPG-20- 癸基十四醇聚醚 -10	72484-69-6	100	-
UNILUBE® 50MT-2200B	PPG-13-DECYL TETRADECETH-24	PPG-13- 癸基十四醇聚醚 -24	72484-69-6	100	-

 $_{\parallel}^{O}$ RCO-(C₂H₄O)_n-H

RCO= Fatty acid part n= The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NONION S-40	PEG-75 STEARATE	PEG-75 硬脂酸酯	9004-99-3	100	-
NONION S-40P	PEG-75 STEARATE	PEG-75 硬脂酸酯	9004-99-3	100	1.00

04/Nonion

$$_{
m RCO-(C_3H_6O)_n-H}^{
m O}$$

RCO= Fatty acid part

n= The number of proplylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNISAFE® PGML	PROPYLENE GLYCOL LAURATE	丙二醇月桂酸酯	27194-74-7	100	0.77

$$^{\rm O}_{\rm II}$$
 RCO— $({\rm C_4H_8O})_{\rm n}$ —H

RCO= Fatty acid part n= The number of buthylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
COMPOL® BL	BUTYLENE GLYCOL LAURATE	丁二醇月桂酸酯	32074-61-6	100	0.73

$${\mathop{\parallel}_{\mathsf{RCO-(C_2H_4O)_n-CR}}^{\mathsf{O}}}$$

RCO= Fatty acid part n=The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NONION D-IS400	PEG-8 DIISOSTEARATE	PEG-8 二异硬脂酸酯	68958-56-5	100	0.62
NONION D-IS600	PEG-12 DIISOSTEARATE	PEG-12 二异硬脂酸酯	68958-56-5	100	0.52
NONION DL-40HN(W)	PEG-75 DILAURATE	PEG-75 二月桂酸酯	9005-02-1	65	-
	WATER	水	7732-18-5	35	

RCO= Fatty acid part a, b: The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNIGLY® MK-207	PEG-7 GLYCERYL COCOATE	PEG-7 甘油 椰油酸酯	68201-46-7	100	-
UNIGLY® MK-207G	PEG-7 GLYCERYL COCOATE	PEG-7 甘油 椰油酸酯	68201-46-7	100	-
UNIGLY® MC-208	PEG-8 CAPRYLIC/CAPRIC GLYCERIDES	PEG-8 辛酸 / 癸酸甘油酯类	127281-18-9	100	-

RCO= Isostearic acid part

a, b, c : The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNIOX® GM-8IS	PEG-8 GLYCERYL ISOSTEARATE	PEG-8 甘油 异硬脂酸酯	69468-44-6	100	0.50
UNIOX® GM-60IS(D)	PEG-60 GLYCERYL ISOSTEARATE	PEG-60 甘油异硬脂酸酯	69468-44-6	100	-

RCO= Isostearic acid part

a, b, c : The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNIOX® GT-20IS	PEG-20 GLYCERYL TRIISOSTEARATE	PEG-20 甘油三异 硬脂酸酯	86846-21-1	100	0.50

$$\begin{array}{c} CH_2O - (C_2H_4O)_a - \overset{\circ}{CR} \\ CHO - (C_2H_4O)_b - \overset{\circ}{CR} \\ O \\ CHO - (C_2H_4O)_c - \overset{\circ}{CR} \\ O \\ CHO - (C_2H_4O)_d - \overset{\circ}{CR} \\ CHO - (C_2H_4O)_d - \overset{\circ}{CR} \\ CHO - (C_2H_4O)_b - H \\ CHO - (C_2H_4O)_b - H \\ CH_2O - (C_2H_4O)_f - H \end{array}$$

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNIOX® ST-30E	SORBETH-30 TETRAOLEATE	山梨醇聚醚 -30 四油酸酯	63089-86-1	100	-
UNIOX® ST-30IS	SORBETH-30 TETRAISOSTEARATE	山梨醇聚醚 -30 四异硬脂酸酯	64364-10-9	100	-
UNIOX® ST-40E	SORBETH-40 TETRAOLEATE	山梨醇聚醚 -40 四油酸酯	63089-86-1	100	-
UNIOX® ST-60E	SORBETH-60 TETRAOLEATE	山梨醇聚醚 -60 四油酸酯	63089-86-1	100	-

04/Nonion

$$\begin{array}{c} O \\ H_2C \\ O \\ CHCH_2(OC_2H_4)_dOCR \\ H(C_2H_4O)_a - OHC \\ CH \\ CH \\ O - (C_2H_4O)_cH \end{array}$$

RCO= Fatty acid part a, b, c, d : The number of ethylene oxide moles

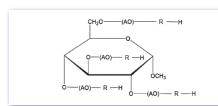
Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NONION LT-221	POLYSORBATE 20	聚山梨醇酯 -20	9005-64-5	100	-
NONION LT-280	PEG-80 SORBITAN LAURATE	PEG-80 失水山梨醇 月桂酸酯	9005-64-5	100	-
NONION LT-280W	PEG-80 SORBITAN LAURATE	PEG-80 失水山梨醇 月桂酸酯	9005-64-5	60	
	WATER	水	7732-18-5	39	
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1	
NONION OT-80	POLYSORBATE 80	聚山梨醇酯 -80	9005-65-6	100	-
NONION ST-60	POLYSORBATE 60	聚山梨醇酯 -60	9005-67-8	100	-

$$\begin{array}{c} CH_2O \longrightarrow (C_2H_4O)_a \longrightarrow C(CH_2)_{10}CH(CH_2)_5CH_3 \\ \downarrow \qquad \qquad O \qquad \qquad O(C_2H_4O)_xH \\ CHO \longrightarrow (C_2H_4O)_b \longrightarrow C(CH_2)_{10}CH(CH_2)_5CH_3 \\ \downarrow \qquad \qquad O \qquad O(C_2H_4O)yH \\ CH_2O \longrightarrow (C_2H_4O)_c \longrightarrow C(CH_2)_{10}CH(CH_2)_5CH_3 \\ O(C_2H_4O)_zH \end{array}$$

a, b, c, x, y, z:
The number of ethylene oxide moles

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNIOX® HC-40	PEG-40 HYDROGENATED CASTOR OIL	PEG-40 氢化蓖麻油	61788-85-0	100	-
UNIOX® HC-60	PEG-60 HYDROGENATED CASTOR OIL	PEG-60 氢化蓖麻油	61788-85-0	100	-
UNIOX® HC-100	PEG-100 HYDROGENATED CASTOR OIL	PEG-100 氢化蓖麻油	63089-86-1	100	-

8 NOF CORPORATION



AO= Ethylene oxide R= Isostearic acid part

	Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
	MACBIOBRIDE® MG-120TIS	PEG-120 METHYL GLUCOSE TRIISOSTEARATE	PEG-120 甲基葡糖三异硬脂酸酯	1356033-54-9	100	-
	MACBIOBRIDE® MG-T	PEG-120 METHYL GLUCOSE TRIISOSTEARATE	PEG-120 甲基葡糖三异硬脂酸酯	1356033-54-9	75	-
		WATER	水	7732-18-5	25	

R= Fatty acid part

Ester

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
GLYMOIST® MO	GLYCERYL OLEATE	甘油油酸酯	37220-82-9	80	0.89
	GLYCERIN	甘油	56-81-5	20	0.09

Sorbitan Fatty Acid Ester

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NONION LP-20R	SORBITAN LAURATE	山梨坦月桂酸酯	1338-39-2	100	1.00
NOFABLE® SO-852S	SORBITAN SESQUIOLEATE	山梨坦倍半油酸酯	8007-43-0	100	1.00

$$(C_2H_4O)_a$$
—H $(C_2H_4O)_b$ —H

R= Alkyl part a, b: The number of ethylene oxide moles

Amine

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NYMEEN® F-202	PEG-2 COCAMINE	-	61791-14-8	100	0.64

04/Nonion



RCO= Alkyl part

Amide

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
STAFORM® DF-4	STAFORM® DF-4 COCAMIDE DEA 椰油酰胺 DEA	68603-42-9	97	0.65	
STAFORIVI® DF-4	COCAIVIIDE DEA	一八 神が田島が及 レビス	111-42-2	3	0.65
	COCAMIDE DEA	椰油酰胺 DEA	68603-42-9	87.5	
STAFORM® DFC	COCAIVIIDE DEA	州川町放 DEA	111-42-2	5.5	Contact us
	By-product (mainly glycerin)	-	-	8	
STAFORM® DL	LAURAMIDE DEA	月桂酰胺 DEA	120-40-1 111-42-2	100	0.64
CTAEODM® E	COCAMIDE DEA (AND)		68440-04-0	75	
STAFORM® F	DIETHANOLAMINE	-	111-42-2	25	_

$$\begin{array}{c|c} O \\ || \\ RCN \\ \hline \\ (C_2H_4O)_a-H \\ O \\ \hline \\ (C_2H_4O)_b-H \end{array} \quad \text{or} \quad \begin{array}{c} O \\ || \\ RCNH \\ \hline \\ (C_2H_4O)_a-H \\ \end{array}$$

$$\begin{array}{c} RCO= \text{acyl part} \\ a, b: \text{The number of ethylene oxide moles} \end{array}$$

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NYMID® MF-210	PEG-11 COCAMIDE	PEG-11 椰油酰胺	68425-44-5 141-43-5	100	-

$R \xrightarrow{O}_{N} CO_{2}M$

RCO= Fatty acid part X=CH $_3$, CH $_2$ CH $_2$ OH M=H, Na, HN(CH $_2$ CH $_2$ OH) $_3$, H $_3$ NCH $_2$ CH $_2$ SO $_3$ Na

Alanines

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
SOFTILT® AH-L *Prototype	LAUROYL METHYL BETA-ALANINE	-	21539-57-1	100	0.80
	MYRISTOYL METHYL BETA-ALANIN	肉豆蔻酰 甲基 β 氨基丙酸	21539-71-9	48.1	
SOFTILT® AH-ME	By-product	-	-	1.9	0.72
	CETYL ETHYL HEXANOATE	鲸 蜡醇乙基己酸 酯	59130-69-7	50	
SOFTILT® AS-L	SODIUM LAUROYL METHYLAMINO- PROPIONATE	月桂酰基 甲基氨基丙酸钠	21539-58-2	30	0.88
	WATER	水	7732-18-5	70	
SOFTILT® AT-L	TEA-LAUROYL METHYLAMINO-PROPIONATE	月桂酰基 甲氨基丙酸 TEA 盐	89353-55-9	30	0.70
	WATER	水	7732-18-5	70	
SOFTILT® AX-L	SODIUM TAURINE LAUROYL METHYL BETA-ALANINATE	-	21539-58-2	25	0.86
	WATER		7732-18-5	75	
LUMINOVEIL® HS-K	SODIUM COCOYL HYDROXYETHYL BETA- ALANINATE	_	-	26	0.84
*Prototype	WATER		7732-18-5	70	0.0 .
	By-product		-	4	
LUMINOVEIL®	SODIUM LAUROYL HYDROXYETHYL BETA- ALANINATE	_	69003-48-1	26	0.84
HS-L	WATER		7732-18-5	70	0.84
	By-product		-	4]

Anion

$$R$$
 N SO_3M $RCO=$ Fatty acid part $M=$ Na, $H_3NCH_2CH_2SO_3Na$

Taurates

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
	SODIUM METHYL COCOYL TAURATE	甲基椰油酰基 牛磺酸钠	61791-42-2	25	
DIAPON® K	WATER	水	7732-18-5	68	0.82
	By-product	-	-	7	
DIAPON® K-SF	SODIUM METHYL COCOYL TAURATE	甲基椰油酰基 牛磺酸钠	61791-42-2	30	0.86
	WATER	水	7732-18-5	70	
DIAPON® K-SF POWDER	SODIUM METHYL COCOYL TAURATE	甲基椰油酰基 牛磺酸钠	61791-42-2	100	0.54
	SODIUM TAURINE COCOYL METHYLTAURATE	椰油酰甲基 牛磺酸牛磺酸钠	61791-42-2 107-35-7	28	
DIAPON® K-SG	WATER	水	7732-18-5	71	0.83
	By-product	-	7647-14-5	1	
	MAGNESIUM METHYL COCOYL TAURATE	甲基椰油基 牛磺酸镁	223705-12-2	25	
DIAPON® K-MG	WATER	水	7732-18-5	69	0.83
	By-product	-	-	6	
DIAPON® HF-SF	SODIUM CAPROYL METHYLTAURATE	-	20461-70-5	26	0.74
	WATER		7732-18-5	74	1



 $RO-(C_2H_4O)_n-SO_3M$

n=0, 2, 3

M=Na, HN(CH₂CH₂OH)₃, HNH₃

Sulfates

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
SUNAMIDE®	SODIUM PEG-4 COCAMIDE SULFATE	PEG-4 椰油 酰胺硫酸酯钠	78125-59-4	28	0.72
C-3	WATER	水	7732-18-5	72	
PERSOFT® EF	SODIUM LAURETH SULFATE	月桂醇聚醚 硫酸酯钠	68891-38-3	25	0.75
EF	WATER	水	7732-18-5	75	
PERSOFT® EFT	TEA-LAURETH SULFATE	月桂醇聚醚 硫酸酯 TEA 盐	27028-82-6	36	0.64
ЕГІ	WATER	水	7732-18-5	64	
PERSOFT®	SODIUM LAURETH SULFATE	月桂醇聚醚 硫酸酯钠	68585-34-2	25	0.75
EL	WATER	水	7732-18-5	75	
PERSOFT®	TEA- LAURYL SULFATE	月桂醇硫酸酯 TEA 盐	139-96-8	39	0.61
SF-T	WATER	水	7732-18-5	61	0.01

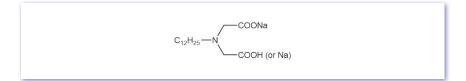
RCOOM

RCO= Fatty acid part M=Na, H₃NCH₂CH₂SO₃Na

Soap

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NONSOUL® LK-2	SEKKEN SOJI-K	-	10124-65-9	100	0.84
	SEKKEN SOJI-K		61789-30-8	30	
NONSOUL® LK-30	WATER	-	7732-18-5	66	0.91
2.00	By-product		-	4	
NONSOUL®	SEKKEN SOJI		629-25-4	87	0.91
LN-1	WATER	-	7732-18-5	13	0.91
NONSOUL® MK-1	POTASSIUM MYRISTATE	肉豆蔻酸钾	13429-27-1	100	0.85
NONSOUL® PK-1	POTASSIUM PALMITATE	棕榈酸钾	2624-31-9	100	0.87

06 / Amphoteric



Iminodiacetic Acid

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
ANON® LA	DISODIUM LAURIMINODIACETATE	月桂亚氨基 二乙酸二钠	34359-86-9 or 141421-68-8	28	0.72
	WATER	水	7732-18-5	72	
ANON® LA POWDER *Prototype	DISODIUM LAURIMINODIACETATE	月桂亚氨基 二乙酸二钠	34359-86-9 or 141421-68-8	100	-

$$\begin{array}{c} \text{CH}_3 \\ \text{R-N+-CH}_2\text{-COO}^- \\ \text{CH}_3 \\ \end{array}$$
 RCO= Alkyl part

Alkyl Betaine

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
	COCO-BETAINE	椰油基甜菜碱	68424-94-2 683-10-3	25	
ANON® BF	WATER	水	7732-18-5	67	0.86
	By-product (mainly inorganic salt)	-	-	8	
	LAURYL BETAINE	月桂基甜菜碱	683-10-3	35	
ANON® BL	WATER	水	7732-18-5	60	0.82
	By-product (mainly inorganic salt)	-	-	5	
	LAURYL BETAINE	月桂基甜菜碱	683-10-3	35	
ANON® BL-SF	WATER	水	7732-18-5	64	0.86
	By-product (mainly inorganic salt)	-	-	1	

$\begin{array}{c|c} R & H & CH_3 \\ \hline N & N^+ & CH_2 - COO^- \\ \hline CH_3 & RCO= Fatty acid part \end{array}$

Alkylamido Betaines

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
	PALM KERNELAMIDOPROPYL BETAINE	棕榈仁油酰胺 丙基甜菜碱	4292-10-8	30	
ANON® BDB-S	WATER	水	7732-18-5	64	0.80
	By-product (mainly inorganic salt)	-	-	6	
ANON® BDC-SF	PALM KERNELAMIDOPROPYL BETAINE	棕榈仁油酰胺 丙基甜菜碱	4292-10-8	30	0.86
	WATER	水	7732-18-5	70	



Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
	COCAMIDOPROPYL BETAINE	椰油酰胺 丙基甜菜碱	61789-40-0	28	
ANON® BDF-R	WATER	水	7732-18-5	65	0.83
	By-product (mainly inorganic salt)	-	-	7	
ANON® BDF-SF	COCAMIDOPROPYL BETAINE	椰油酰胺 丙基甜菜碱	61789-40-0	31	0.86
	WATER	水	7732-18-5	69	
ANON® BDL-SF	LAURAMIDOPROPYL BETAINE	月桂酰胺 丙基甜菜碱	4292-10-8	30	0.86
	WATER	水	7732-18-5	70	
	LAURAMIDOPROPYL BETAINE	月桂酰胺 丙基甜菜碱	4292-10-8	29.67	
ANON® BDL-SFK	WATER	水	7732-18-5	69.23	0.86
	SODIUM BENZOATE	苯甲酸钠	532-32-1	0.8	
	CITRIC ACID	柠檬酸	5949-29-1	0.3	

RCO= Fatty acid part

RCO= Alkyl part

Imidazolinium betaine

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
ANON® GLM-R-LV	SODIUM COCOAMPHOACETATE	椰油酰两性基 乙酸钠	68334-21-4	27	
	WATER	水	7732-18-5	67	0.67
	By-product (mainly inorganic salt)	-	-	6	

$$C_{12}H_{25}$$
 N_{+}^{+} N_{-}^{+} N

Sulfobetaine

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
ANON® L-SB	LAURYL HYDROXYSULTAINE	月桂基羟基 磺基甜菜碱	13197-76-7	30	
	WATER	水	7732-18-5	55	0.55
	By-product	-	-	15	

Amine Oxide

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
UNISAFE® A-LM	LAURAMINE OXIDE	月桂基胺氧化物	1643-20-5 7722-84-1	35	0.90
	WATER	水	7732-18-5	65	
UNISAFE® A-SM	STEARAMINE OXIDE	硬脂胺氧化物	2571-88-2	35	0.93
	WATER	水	7732-18-5	65	0.93

07 Cation

$$\begin{bmatrix} CH_3 \\ R-N - CH_3 \\ CH_3 \end{bmatrix} \cdot CI^-$$

$$R = Alkyl part$$

Mono Alkyl Cation

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
CATION	STEARTRIMONIUM CHLORIDE	硬脂基三甲基 氯化铵	112-03-8	25	0.93
AB-250AQ	WATER	水	7732-18-5	75	
CATION	STEARTRIMONIUM CHLORIDE	硬脂基三甲基 氯化铵	112-03-8	63	
AB-600	WATER	水	7732-18-5	5	0.51
	ISOPROPYL ALCOHOL	异丙醇	67-63-0	32	
CATION	STEARTRIMONIUM CHLORIDE	硬脂基三甲基 氯化铵	112-03-8	70	
AB-700E	WATER	水	7732-18-5	5	0.56
	ALCOHOL	乙醇	122-99-6	25	
CATION	LAURTRIMONIUM CHLORIDE	月桂基三甲基 氯化铵	112-00-5	30	0.74
BB	WATER	水	7732-18-5	55	
	By-product	-	-	15	
CATION	CETRIMONIUM CHLORIDE	西曲氯铵	112-02-7	28	0.92
PB-300	WATER	水	7732-18-5	72	0.92
CATION	BEHENTRIMONIUM CHLORIDE	山嵛基三甲基 氯化铵	68607-24-9	80	0.61
VB-800E	ALCOHOL	乙醇	122-99-6	20	
CATION	BEHENTRIMONIUM CHLORIDE	山嵛基三甲基 氯化铵	68607-24-9	80	0.61
VB-F	ALCOHOL DENAT.	变性乙醇	64-17-5	20	
CATION VB-M	BEHENTRIMONIUM CHLORIDE	山嵛基三甲基 氯化铵	68607-24-9	80	0.61
FLAKE	ISOPROPYL ALCOHOL	异丙醇	67-63-0	20	1

$\begin{array}{c|c} CH_3 \\ R-N & CH_2 \\ CH_3 & CI^- \\ CH_3 & R= Alkyl part \end{array}$

Mono Alkyl Benzyl Cation

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
CATION	BENZALKONIUM CHLORIDE	苯扎氯铵	61789-71-7	50	0.76
F2-50R	WATER	水	7732-18-5	50	0.76
CATION	BENZALKONIUM CHLORIDE	苯扎氯铵	139-08-2	91	0.56
M2-100R	WATER	水	7732-18-5	9	



Dialkyl Caticon

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
CATION 2AB-S	DISTEARYLDIMONIUM CHLORIDE	二硬脂基二甲基氯化铵	107-64-2	75	
	WATER	水	7732-18-5	10	0.81
	ISOPROPYL ALCOHOL	异丙醇	67-63-0	15	
CATION EQ-01D	BIS-SOYOYL/ RAPESEEDOYL ETHYL HYDROXYETHYLMONIUM METHOSULFATE	-	91995-81-2	85	Contact us
	DIPROPYLENE GLYCOL		25265-71-8	15	1

$$R-N$$
 CH_3
 $R=$ Alkyl part

Amine

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.	
TERTIARY AMINE AB	DIMETHYL STEARAMINE	二甲基硬脂基胺	124-28-7	100	0.85	

08/ Fatty acid / Hydrogenated oil

RCOOH

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
NAA®-102	CAPRIC ACID	癸酸	334-48-5	100	1.00
NAA®-122	LAURIC ACID	月桂酸	143-07-7	100	1.00
			334-48-5	10	
NAA®-312	LAURIC ACID	月桂酸	143-07-7	75	1.00
			544-63-8	15	
NAA®-415	COCONUT ACID	椰油酸	61788-47-4	100	1.00
NAA®-142	MYRISTIC ACID	肉豆蔻酸	544-63-8	100	1.00
NAA®-160	PALMITIC ACID	棕榈酸	57-10-3	100	1.00
NAA®-400 OLEIC ACID	OLEIC ACID	油酸	112-80-1	100	1.00
EXTRA OS-85	OLEIC ACID	油酸	112-80-1	100	1.00
CLEARBRIGHT® 81S	OLEIC ACID	油酸	112-80-1	100	1.00
CASTER® WAX A FLAKE	HYDROGENATED CASTOR OIL	氢化蓖麻油	8001-78-3	100	1.00
12-HYDROXYSTEARIC ACID	HYDROXYSTEARIC ACID	羟基硬脂酸	106-14-9	100	1.00
LINOLEIC ACID 90	LINOLEIC ACID	亚油酸	60-33-3	100	1.00
NAA®-222S BEADS	BEHENIC ACID	山嵛酸	112-85-6	100	1.00



(RCOO)_nM

M=Zn, Ca, Mg, Al R = C₁₃H₂₇, M=Mg

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
POWDERBASE® L	ZINC LAURATE	月桂酸锌	2452-01-9	100	0.86
POWDERBASE® M	ZINC MYRISTATE	肉豆蔻酸锌	16260-27-8	100	0.87
MZ-2	ZINC STEARATE	硬脂酸锌	557-05-1	100	0.90
ALUMINUM STEARATE 600 VEGETABLE	ALUMINUM DISTEARATE	二硬脂酸铝	300-92-5	100	0.92
CALCIUM STEARATE VEGETABLE	CALCIUM STEARATE	硬脂酸钙	1592-23-0	100	0.93
ZINC STEARATE VEGETABLE	ZINC STEARATE	硬脂酸锌	557-05-01	100	0.90
MAGNESIUM STEARATE-S	MAGNESIUM STEARATE	硬脂酸镁	557-04-0	100	0.96

(RCOO)_nM

Χ

R =Fatty acid part M=Metal X =Core

Functional Metal Soap

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
POWDERBASE® BM14	MAGNESIUM MYRISTATE	肉豆蔻酸镁	4086-70-8	84	1.00
*Prototype	BORON NITRIDE	一氮化硼	10043-11-5	16	1.00
POWDERBASE® BZ12	ZINC LAURATE	月桂酸锌	2452-01-9	84	1.00
*Prototype	BORON NITRIDE	一氮化硼	10043-11-5	16	1.00

10 Extract

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.	
AKEBIA® EXTRACT	AKEBIA TRIFOLIATA STEM EXTRACT	三叶木通 (AKEBIA TRIFOLIATA) 茎提取物	891863-03-9	0.9		
BG	WATER	水	7732-18-5	69.1	0.70	
	BUTYLENE GLYCOL	丁二醇	107-88-0	30		
APRICOT JUICE PH™	PRUNUS ARMENIACA (APRICOT) JUICE	杏 (PRUNUS ARMENIACA) 汁	68650-44-2	85	0.99	
	GLYCERIN	甘油	56-81-5	15		
ECKLEXT®	ECKLONIA KUROME EXTRACT	山茶 (CAMELLIA JAPONICA) 籽提取物	なし	1	_	
BG	WATER	水	7732-18-5	19.8		
	BUTYLENE GLYCOL	丁二醇	107-88-0	79.2		
KUMIS KUCHING EXTRACT	ORTHOSIPHON STAMINEUS EXTRACT	肾茶 (ORTHOSIPHON STAMINEUS) 提取物	84012-29-3	0.9		
BG [™]	BUTYLENE GLYCOL	丁二醇	107-88-0	59.5	-	
	WATER	水	7732-18-5	39.6		
SHEKWASHA EXTRACT	CITRUS DEPRESSA PEEL EXTRACT	扁平橘 (CITRUS DEPRESSA) 果皮提取物	1007871-77-3	1.4	1.00	
Plant-BG [™]	WATER	水	7732-18-5	39.4	1.00	
	BUTYLENE GLYCOL	丁二醇	107-88-0	59.2		
MULBERRY ROOT BARK	MORUS ALBA ROOT EXTRACT	桑(MORUS ALBA) 根提取物	94167-05-2	1		
EXTRACT™	WATER	水	7732-18-5	19.8	0.98	
	BUTYLENE GLYCOL	丁二醇	107-88-0	79.2		
CHINPI EXTRACT	CITRUS AURANTIUM TACHIBANA PEEL EXTRACT	酸橙 (CITRUS AURANTIUM TACHIBANA) 果皮提取物	1007871-75-1	1.6	_	
K65B™	WATER	水	7732-18-5	34.4		
	BUTYLENE GLYCOL	丁二醇	107-88-0	64		
CHINPI EXTRACT PM-F	CITRUS AURANTIUM DULCIS (ORANGE) PEEL EXTRACT	甜橙 (CITRUS AURANTIUM DULCIS) 果皮提取物	8028-48-6	1.5	1.00	
(N) [™]	WATER	水	7732-18-5	19.7		
	BUTYLENE GLYCOL	丁二醇	107-88-0	78.8		
CAMELLIA FLOWER EXTRACT	CAMELLIA JAPONICA FLOWER EXTRACT	山茶 (CAMELLIA JAPONICA) 花提取物	223748-13-8	1		
BG^TM	BUTYLENE GLYCOL	丁二醇	107-88-0	49.5		
	WATER	水	7732-18-5	49.5		
CAMELLIA SEED EXTRACT Plant-BG™	CAMELLIA JAPONICA SEED EXTRACT	山茶 (CAMELLIA JAPONICA) 籽提取物	223748-13-8	0.8	1.00	
	WATER	水	7732-18-5	49.2	1.00	
	BUTYLENE GLYCOL	丁二醇	107-88-0	50		
CAMELLIA LEAF EXTRACT	CAMELLIA JAPONICA LEAF EXTRACT	山茶 (CAMELLIA JAPONICA) 叶提取物	223748-13-8	1	_	
BG^TM	BUTYLENE GLYCOL	丁二醇	107-88-0	49.5		
	WATER	水	7732-18-5	49.5		



Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.	
TSUYAHIME RICE BRAN	ORYZA SATIVA (RICE) BRAN EXTRACT	稻 (ORYZA SATIVA) 糠提取	936843-29-7	1		
EXTRACT™	WATER	水	7732-18-5	49.5		
	BUTYLENE GLYCOL	丁二醇	107-88-0	49.5		
VERBENA OFFICINALIS	VERBENA OFFICINALIS EXTRACT	马鞭草 (VERBENA OFFICINALIS) 提取物	84961-67-1	0.6		
EXTRACT BG™	BUTYLENE GLYCOL	丁二醇	107-88-0	79.5	-	
	WATER	水	7732-18-5	19.9		
BAKUMONDOU EXTRACT Plant-BG [™]	OPHIOPOGON JAPONICUS ROOT EXTRACT	麦冬 (OPHIOPOGON JAPONICUS) 根提取物	952500-62-8	1.4	1.0	
	WATER	水	7732-18-5	69		
	BUTYLENE GLYCOL	丁二醇	107-88-0	29.6		
PASSION FRUIT EXTRACT	PASSIFLORA EDULIS PEEL EXTRACT	鸡蛋果 (PASSIFLORA EDULIS) 果皮提取物	91770-48-8	1.2		
BG [™]	BUTYLENE GLYCOL	丁二醇	107-88-0	59.3	-	
	WATER	水	7732-18-5	39.5		
PEACANNUTS EXTRACT BG-2 [™]	CARYA ILLINOINENSIS (PECAN) SHELL EXTRACT	美国山核桃 (CARYA ILLINOENSIS) 売提取物	246166-03-0	1.3	0-	
	WATER	水	7732-18-5	69.1	0.7	
	BUTYLENE GLYCOL	丁二醇	107-88-0	29.6		
GRAPE EXTRACT BG™	VITIS VINIFERA (GRAPE) FRUIT EXTRACT	葡萄 (VITIS VINIFERA) 果提取物	84929-27-1	0.5	1.0	
	WATER	水	7732-18-5	49.75		
	BUTYLENE GLYCOL	丁二醇	107-88-0	49.75		
	SOLUBLE PROTEOGLYCAN	可溶性蛋白多糖	9000-01-5	1		
DDOTEOOLYO ANITM	WATER	水	7732-18-5	96.7		
PROTEOGLYCAN [™] (PLANT)	PENTYLENE GLYCOL	1,2- 戊二醇	5343-92-0	2	0.9	
, ,	PHENOXYETHANOL	苯氧乙醇	122-99-6	0.2		
	SODIUM CITRATE	柠檬酸钠	6132-04-3	0.1		
EUCALYPTUS EXTRACT	EUCALYPTUS GLOBULUS LEAF EXTRACT	蓝桉 (EUCALYPTUS GLOBULUS) 叶提取物	84625-32-1	1		
Plant-BG [™]	WATER	水	7732-18-5	19.8	1.0	
	BUTYLENE GLYCOL	丁二醇	107-88-0	79.2		
EUCALYPTUS EXTRACT	EUCALYPTUS GLOBULUS LEAF EXTRACT	蓝桉 (EUCALYPTUS GLOBULUS) 叶提取物	84625-32-1	1.6		
ET TM	WATER	水	7732-18-5	49.2	1.0	
	ALCOHOL	乙醇	64-17-5	49.2		
TURMERIC EXTRACT Plant-BG [™]	CURCUMA LONGA(TURMERIC) RHIZOME EXTRACT or CURCUMA LONGA(TURMERIC) ROOT EXTRACT	姜黄 (CURCUMA LONGA) 根提取物	84775-52-0	0.3	1.0	
	BUTYLENE GLYCOL	丁二醇	107-88-0	79.8	\dashv	
	WATER	水	7732-18-5	19.9		
VOLIKOLI SVKI IDV EL OVVED	CERASUS YOUKOU FLOWER EXTRACT		-	0.8		
YOUKOU SAKURA FLOWER EXTRACT BG TM	BUTYLENE GLYCOL	-	107-88-0	79.4	-	
EXTINOT BO	WATER	-	7732-18-5	19.8	-	

11 / Gemini-type

Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
Vinoveil®-BS-100P	BEHENDIMONIUM ETHYL STEARYL PHOSPHATE		1151518-05-6	100	0.80
	BEHENDIMONIUM ETHYL STEARYL PHOSPHATE		1151518-05-6	1	
	GLYCERIN		56-81-5	50	
Vinoveil®-BS-1D	BEHENTRIMONIUM CHLORIDE	-	68607-24-9	0.3	1.00
	ALCOHOL		64-17-5	0.075	
	WATER		7732-18-5	48.625	

12/Phospholipid

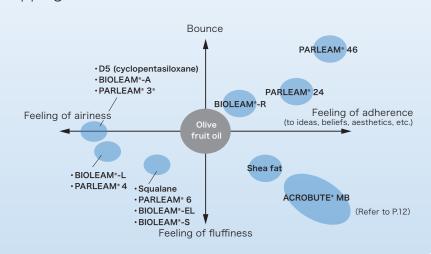
Product Name	INCI	Chinies INCI	CAS No.	Composition	N.O.I.
	LYSOLECITHIN	溶血卵磷脂	85711-58-6	20	
CyPA®-QD Plant-BG	GLYCERIN	甘油	56-81-5	50	1.00
riain 20	BUTYLENE GLYCOL		107-88-0	30	
CyPA®-PW	CYCLIC LYSOPHOSPHATIDIC ACID	-	11626272-17-4	50	1.00
	CYCLODEXTRIN		10016-20-3	50	
COATSOME® NC-21	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	100	1.00
COATSOME® NC-61	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	100	1.00

S NOF CORPORATION

Product Name	INCI Chinies INCI		CAS No.	Composition	N.O.	
	BUTYLENE GLYCOL	丁二醇	107-88-0	10		
	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	4		
	CHOLESTEROL	胆甾醇	57-88-5	1		
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1		
EXTRASOME® AQUA(BG)	SODIUM COCOYL SARCOSINATE	椰油酰肌氨酸钠	61791-59-1	0.05	0.89	
	WATER	水	7732-18-5	0.12		
	TOCOPHEROL	生育酚 (维生素 E)	119-13-1	0.02		
	WATER	水	7732-18-5	83.81		
	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	4		
	CHOLESTEROL	胆甾醇	57-88-5	1		
	CERAMIDE NP	神经酰胺 NP	100403-19-8	0.1		
	XANTHAN GUM	黄原胶	11138-66-2	0.1		
EXTRASOME® C3-L	METHYLPARABEN	羟苯甲酯	99-76-3	0.15	1.00	
	ETHYLPARABEN	羟苯乙酯	120-47-8	0.05		
	SODIUM STEAROYL GLUTAMATE	硬脂酰谷氨酸钠	79811-24-8	0.05		
	WATER	水	7732-18-5	94.55		
	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	76	0.99	
EXTRASOME® HC	CHOLESTEROL	胆甾醇	57-88-5	19		
EXTRAGOIVIE TIC	SODIUM COCOYL SARCOSINATE	椰油酰肌氨酸钠	Contact us	5		
EVED A CONTENT A AC	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	82.6	1.00	
EXTRASOME® MC	CHOLESTEROL	胆甾醇	57-88-5	17.4	1.00	
	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	4		
	ALCOHOL	乙醇	64-17-5	2.25		
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1.25		
	CHOLESTEROL	胆甾醇	57-88-5	1		
EXTRASOME® NANO	XANTHAN GUM	黄原胶	11138-66-2	0.1	- Conta	
	SODIUM COCOYL SARCOSINATE	椰油酰肌氨酸钠	61791-59-1	0.05		
	WATER	水	7732-18-5	0.12		
	WATER	水	7732-18-5	91.23		
	BUTYLENE GLYCOL	丁二醇	107-88-0	10		
	HYDROGENATED LECITHIN	氢化卵磷脂	92128-87-5	4		
	CHOLESTEROL	胆甾醇	57-88-5	1		
	PHENOXYETHANOL	苯氧乙醇	122-99-6	1		
	POLYQUATERNIUM-51	聚季铵盐 -51	125275-25-4	0.5		
PRIMESOME® -MB	WATER	水	7732-18-5	9.5	0.88	
	SODIUM COCOYL SARCOSINATE	椰油酰肌氨酸钠	61791-59-1	0.05		
	WATER	水	7732-18-5	0.12		
	TOCOPHEROL	生育酚 (维生素 E)	119-13-1	0.02		
	WATER	水	7732-18-5	73.81	7	

Skin Care Oils

We have lined up PARLEAM® and BIOLEAM® series as oils with various functions. PARLEAM® 3 and BIOLEAM®-A exhibit a feel equivalent to cyclopentasiloxane, PARLEAM® 4 and BIOLEAM®-L have a high plumping effect, and PARLEAM® 6 has a feel equivalent to squalane. In addition, PAR-LEAM®-24 and PARLEAM®-46 have excellent firmness and adhesion.



High quality hydrocarbons that can produce various textures

PARLEAM®/POLYSYNLANE® series INCI: Hydrogenated polyisobutene

The PARLEAM® series is a colorless, odorless, and tasteless high-purity hydrocarbon that exhibits good stability. 7 different lineups are available to create a variety of textures. We recommend PARLEAM® EX and 6 for skincare. Moreover, to enhance the richness skincare formulations, high-viscosity products such as 18, 24, and 46 can be blended with low-viscosity PARLEAM*, offering a diverse range of textures to suit various product needs. +Plus! NOF Formulation is P.42, 44, (51, 52, 70)

viscosity	Low viscosity products				Hig	h Viscosity Produ	ucts
grade	3	4	LITE	-	V	HV	sv
Kinematic viscosity (37.8°C, mm ² /s)	1.4	3.1	10.6	20.1	-	-	-
Kinematic viscosity (98.9°C, mm ² /s)	-	-	2.5	3.6	300	800	4,700
Refractive index	1.429	1.442	1.456	1.458	1.494	1.499	1.505
Special Features	Volatility Airy feeling	Good compatibility with silicone high detergency	Balanced lightness and emollient feeling	Squalane-like texture	An essential ingredient in makeup cosmetics due to good adhesionA trace amount added (0.1-0.5%) gives to skin care products, Hair care products add lust		-0.5%) gives richness

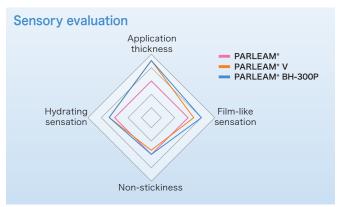
A newly developed oil formulation that combines excellent usability with the unique characteristics of high-viscosity PARLEAM®/POLYSYNLANE®

PARLEAM®/POLYSYNLANE® BH-300P

INCI: Hydrogenated polyisobutene

PARLEAM® BH-300P is a newly developed product that combines the ease of handling found in low-viscosity PARLEAM® with the outstanding properties of high-viscosity PARLEAM®. When used in skincare formulations, it delivers excellent film-forming properties, enhances the sensation of hydration, and reduces stickiness after drvina

※ Kinematic viscosity (40.0°C, mm²/s) 145.5, Refractive index (20°C) 1.470



Test method: 5-point grading with PARLEAM® as the standard (3 points)
Average of 5 subjects (3 males and 2 females)
Formulation: (PARLEAM® BH-300P, PARLEAM® V) 5.0 wt% Glycerin 5.0 wt%, oil
12.6wt%, Emulsifier 2.8wt%, water balance

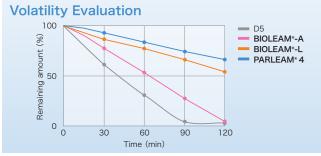
Natural Emollient Agent Series with Superior Functionality and handling

BIOLEAM®/Green PARLEAM®

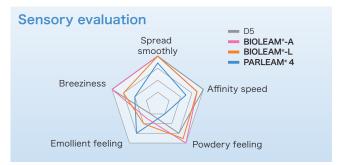
INCI: Listed in the table on the right

The BIOLEAM® series is comprised of high-quality, natural-origin emollient agents, offering five distinct products to create a variety of unique textures. BIOLEAM®-A, BIOLEAM®-L and BIOLEAM®-EL are a 100% natural origin index emollient agents. BIOLEAM®-A serves as an alternative to D5 or dimethicone, while BIOLEAM®-A and BIOLEAM®-L exhibit volatility, ensuring ease of application and a smooth, skin-friendly. †Plus!NOF Formulation is P.45, (52)

grade	Α	L	S	EL	R
Display name	C9-12 Alkane, C14-22 Alcohols	C9-12 Alkane, C13-15 Alkane, C14-22 Alcohols	Polydecene, C9-12 Alkane	C14-22 Alcohols	Polydecene
Kinematic viscosity (40.0°C, mm ² /s)	1.5	1.7	20	28	300
Refractive index (20°C)	1.422	1.426	1.455	1.454	1.474
NOI	1	1	0.9	1	0.9
Specia Features	Highly volatile oil Produces good skin affinity	Volatile oil Good skin affinity and emollient feel	Good skin affinity Emollient feel Water Resistance Inhibition of α-gel crystallization	Squalane-like texture Improved powder dispersion stability	Rich feeling Inhibition of α-gel crystallization



Test method: 0.4 g of each oil was soaked into filter paper, placed in a thermostatic bath at 20°C, and the weight of the filter paper was measured at each time.



Test method: Sensory evaluation of the feeling of each ingredient when applied in appropriate quantities to the upper arm was conducted using a 5-point sensory evaluation.

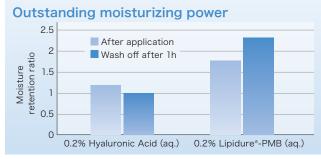
Skin Care Functional Polymers

Moisture film protects skin from dryness and irritation

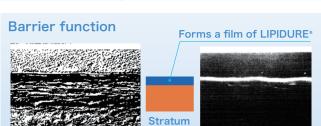
LIPIDURE® series INCI: Listed in the table on the right

The LIPIDURE® series is a cosmetic ingredient renowned for its superior moisturizing capabilities, closely resembling the 'cell membrane' that encases human cells. By forming a moisture-retaining film on the skin, LIPIDURE® protects and hydrates effectively. Its high biocompatibility also makes it suitable for use in eye drops and contact lenses. *Plus! NOF Formulation is P.42, 43, 44, 45, (52, 61, 65, 67, 70, 76)

Product name	INCI name
LIPIDURE*-HM	Polymethacryloyloxyethylphosphorylcholine
LIPIDURE®-PMB	Polyquaternium-51
LIPIDURE®-A	Polyquaternium-65
LIPIDURE®-C	Polyquaternium-64
LIPIDURE*-S、-NR、-NA	Polyquaternium-61



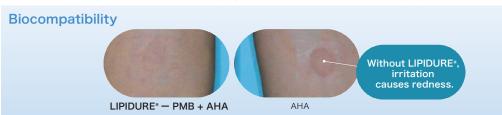
Test method: Samples were applied to the arms, immediately after application and 1 hour after washing with water. Moisture retention capacity was measured.



Test method: Fluorescently labeled LIPIDURE* was applied to LSE, Rinsed 10 times in phosphate buffer

Differential interferogram

corneum



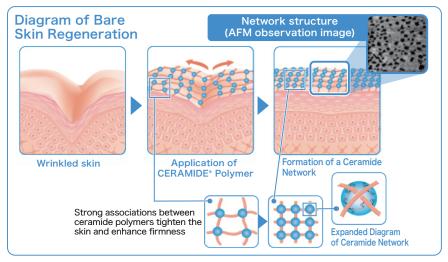


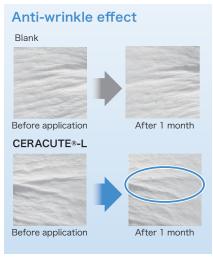
Fluorescence image

Polymer that mimics the structure of ceramide

CERACUTE® series

When applied to the skin, the CERACUTE* series forms a polymer network that provides an anti-wrinkle effect. This network enhances skin elasticity (soft skin regeneration) by utilizing the strong aggregation of ceramide polymers, which results in firmer and more elastic skin. Additionally, despite being an anti-wrinkle material, it offers a natural feel with no slippery sensation. With its ceramide-like structure, CERACUTE* is distinguished by its excellent skin compatibility and high safety profile. *Plus! NOF Formulation is P.45, (76)

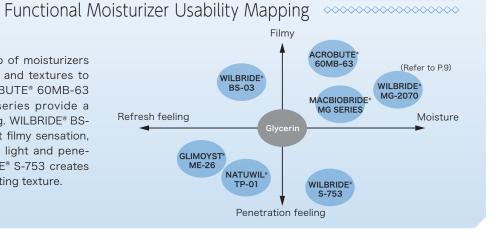




Test method: 5wt% CERACUTE*-L water dispersion was applied to the outer corner of the eyes twice a day for 4 weeks.

Skin Care Moisturizing Ingredients

NOF offers a diverse lineup of moisturizers with unique functionalities and textures to suit various needs. ACROBUTE* 60MB-63 and MACBIOBRIDE* MG series provide a rich, filmy, and moist feeling. WILBRIDE* BS-03 delivers a refreshing yet filmy sensation, GLYMOST* ME-26 offers a light and penetrating feel, while WILBRIDE* S-753 creates a deeply moist and penetrating texture.

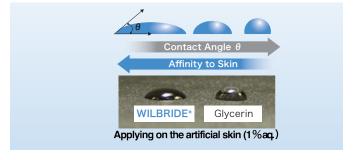


 Water-based moisturizing oil with selective transdermal absorption control function, creating a higher grade of luxury and permeability

WILBRIDE® S-753D

INCI: PEG/PPG/polybutylene glycol-8/5/3 glycerin

WILBRIDE* S-753 offers moisturizing properties comparable to glycerin while imparting an oil-based emollient texture to water-based formulations such as lotions and serums. It enhances the transdermal absorption of hydrophilic drugs while inhibiting the absorption of oil-soluble drugs. With its broad compatibility, ranging from water to polar oils, it is also suitable for use in cleansing formulations. *Plus! NOF Formulation is P.43, (50, 76)



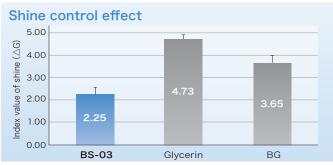
Shine and makeup breakdown can also be suppressed! Water-based moisturizing oil that provides both a filmy and refreshing feeling

WILBRIDE® BS-03

INCI: PPG-7-Buteth-10

WILBRIDE® BS-03 offers a distinctive feel and functionality compared to conventional moisturizers, made possible through NOF's original technology. It delivers a non-sticky sensation while providing both a membrane-like and refreshing texture. Additionally, it effectively controls shine and prevents makeup breakdown caused by sebum. WILBRIDE® BS-03 also enhances radiance and improves the penetration of active ingredients, making it a versatile ingredient for cosmetic formulations.

*Plus! NOF Formulation is P.42



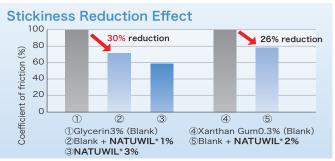
Test: A 5% aqueous solution of the moisturizer was applied to artificial leather, followed by the application of oleic acid. The difference in specular reflected light was then calculated.

100% plant-derived! Next generation water-based moisturizing oil

NATUWIL® TP-01

INCI: (propanediol/triethylene glycol) copolymer

NATUWIL® TP-01 is a water-based moisturizing oil made entirely from plant-derived raw materials, ensuring 100% plant-derived content in compliance with ISO 16128 standards. Its amphiphilic nature allows it to deliver exceptional moisturizing properties and a rich, non-sticky texture in aqueous formulations. With a high cloud point (approximately 65°C), it seamlessly integrates into various aqueous formulations, making it a versatile choice for a wide range of applications.



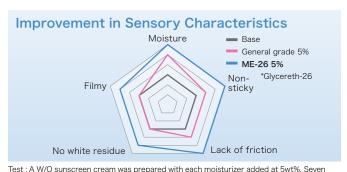
Test: The dynamic friction coefficient of the aqueous solutions below was measured, and the stickiness reduction rate with NATUWIL® was calculated.

Water-based moisturizing oil that combines the moisturizing power of glycerin with a refreshing feeling

GLYMOIST® ME-26

INCI: Glycereth-26

GLYMOST® ME-26 is an AO derivative designed through a proprietary manufacturing process, where EO is added exclusively to the first hydroxyl group of glycerin. In contrast, the general product, Glycereth-26, features EO added to all three hydroxyl groups of glycerin. GLYMOST® ME-26 is distinguished by its superior moisturizing properties, attributed to its glycerin skeleton and PEG chain. It is also highly effective in sunscreen formulations, suppressing the creakiness of UV scattering agents, enhancing SPF values by improving the dispersibility of scattering agents, minimizing white cast, and improving formulation stability.



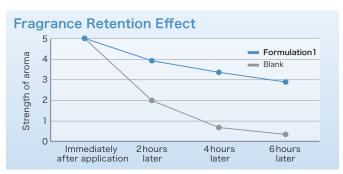
lest: A W/O sunscreen cream was prepared with each moisturizer added at 5wt%. Seven participants (4 men and 3 women) used the samples and conducted relative evaluations using glycerin-containing formulations as the standard, based on a 7-point scale.

New water-based moisturizing oil with flexible fragrance control

ACROBUTE® 60MB-63

INCI: PPG-28-Buteth-35

ACROBUTE* 60MB-63 is a high molecular weight PPG derivative that is challenging to synthesize. Leveraging our proprietary manufacturing process, it features an asymmetric molecular weight distribution with ultra-high molecular weight components. This unique characteristic enhances the longevity of fragrances and suppresses unpleasant odors, including body and household odors. Additionally, it improves the retention of hydrophilic active ingredients on the skin, making it an exceptional ingredient for advanced formulations. *Plus!NOF Formulation is P.44, (62)



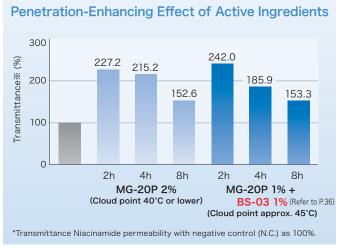
Penetration-supporting water-based moisturizing oil that enhances beauty benefits

MACBIOBRIDE® MG-20P

INCI: PPG-20 methylglucose

MACBIOBRIDE® MG-20P is a water-based moisturizing oil made from corn-derived raw materials that brings a luxurious feel to cosmetics. It has a water-soluble active ingredient penetration-promoting effect and has antiseptic properties, reducing the use of preservatives. It can also impart a smooth film feeling.

*Plus! NOF Formulation is P.45



Test: Prepare donor solution (a water solution containing AA2G and additives) and receptor solution (phosphate buffer solution: pH 7.2). Allow the donor solution to permeate through an artificial membrane into the receptor solution for 8 hours. Measure the amount of AA2G in the receptor solution using HPLC.

Skin Care Emulsifiers

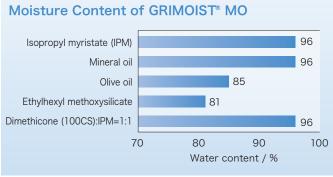
Highly moisturizing W/O emulsifier with both water resistance and a refreshing feeling

GLYMOIST® MO

INCI: Glyceryl Oleate, Glycerin

GLYMOST* MO is a high-purity monoester emulsifier developed using our proprietary manufacturing process. It enables the formation of inverse hexagonal liquid crystals, allowing for W/O emulsions with exceptional water resistance and temperature stability. Additionally, it facilitates the creation of high internal aqueous phase W/O emulsions, emulsifying more than 80% of the aqueous phase. This results in W/O emulsions that combine superior water resistance and high moisture retention with a fresh and light texture. GLYMOST* MO also enhances the dispersibility of powders such as UV scattering agents, making it a versatile ingredient for advanced formulations.

*Plus! NOF Formulation is P.45, (76)



Test: Weigh 2g of oil and 2g of MO, mix thoroughly at 80°C until uniform, and gradually add water while stirring at 80°C until phase separation occurs.

Non-sticky O/W emulsifier with excellent handling properties

SOLUBULE® GS-01/ SOLUBULE® GS-01P*

INCI: PPG-13 decyltetradeceth-24

SOLUBULE* GS-01 is a liquid at room temperature, achieved through a proprietary manufacturing process that ensures easy handling. It offers excellent solubilizing power across a wide range of oil types and provides high moisturizing benefits for both skin and hair. SOLUBULE* GS-01 enhances skin compatibility, imparts a sense of penetration, and boosts cleansing performance. With its superior emulsifying properties and reduced stickiness compared to general-purpose surfactants, it is also ideal for creating D-phase emulsions with ease.

*Plus! NOF Formulation is P.42, 43, 44, 45, (52, 76)

*P contains partially plant-derived ingredients.

Evaluation of Stickiness During Application High GS-01 5.0%ag PEG-60 Coefficient of kinetic friction (μk) 2 hydrogenated castor oil At the time 5.0%aq Sticky of application (when wet) After application (when dry) Low 60 20 40 80 Number of round-trips

Measurement method : A sample was applied to the inside of the arm and the coefficient of kinetic friction was measured.

Skin Care Solubilizers

Excellent solubilizer with a good ability to various oils

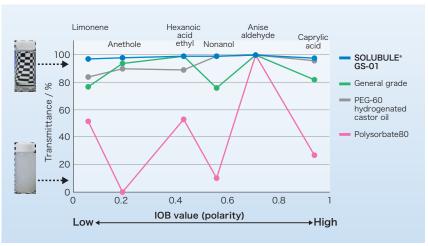
SOLUBULE® GS-01/ SOLUBULE® GS-01P*

INCI: PPG-13 decyltetradeceth-24

SOLUBULE* GS-01 has excellent solubilizing power for a wide range of oils. Our proprietary manufacturing process makes it liquid at room temperature, making it easy to handle. It has a high moisturizing effect on skin and hair, and is expected to improve skin familiarity, impart a sense of penetration, and enhance cleansing power. It is also characterized by its extremely low stickiness, even at high dosage.

Plus! NOF Formulation is P.42, 43, 44, 45, (52, 76)

^{*}P contains partially plant-derived ingredients.



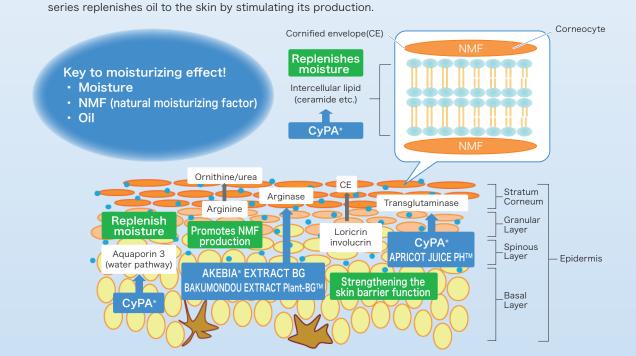
Formulation: oil 0.5%, solubilizer 2.0%, water 97.5

Skin Care Functional Ingredients

Plant extracts/Phospholipid with moisturizing effect

The key to the moisturizing effect is to maintain a good balance of moisture, NMF (natural moisturizing factor), and oil inside the skin. In terms of moisture, the CyPA® series promotes the expression of aquaporin 3, a water pathway, to replenish moisture to the skin. In addition, CyPA® series and APRICOT JUICE PH™ prevent moisture evaporation by strengthening the skin barrier function through the promotion of transglutaminase expression.

In NMFs, the activation of arginase in AKEBIA® EXTRACT BG and BAKUMONDOU EXTRACT Plant-BG™ has a production-promoting effect. Oil refers to intercellular lipids such as ceramide, and the CyPA® series replenishes oil to the skin by stimulating its production.

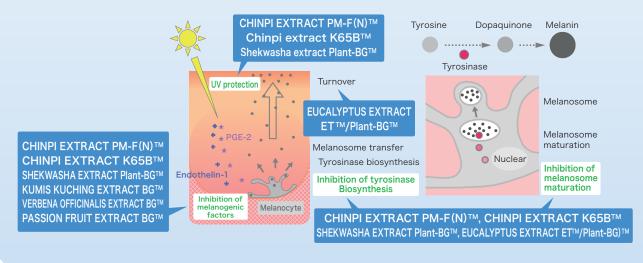


Plant extracts/Phospholipid with moisturizing effect

Various factors can cause skin discoloration, but the main factor is UV rays. Exposure to UV rays releases melanin-activating factors, causing melanin to be produced by melanocytes. Our extract has the effect of suppressing or inhibiting these factors.

Various plant extracts, such as CHINPI EXTRACT PM-F™, CHINPI EXTRACT K65B™ and SHEKWASHA EXTRACT BG™, are multi-step approaches for UV protection, inhibition of melanogenic factors, inhibition of tyrosinase biosynthesis and inhibition of melanosome maturation.

Other plant extracts can be selected according to the concept of the product.



Bioactive lipids that improve wrinkles by increasing firmness and elasticity

CyPA®-QD Plant-BG

INCI: Lysolecithin, Glycerin, Butylene Glycol

CyPA*-QD Plant-BG is a cyclic phosphatidic acid that corresponds to lysolecithin, a phospholipid with intramolecular ester bonds forming a ring structure. Known for its numerous physiological activities, CyPA* has been extensively studied for its applications in skincare. Derived from soybean phospholipids, CyPA* is incorporated into cosmetics to deliver a range of benefits. By promoting the expression of hyaluronic acid synthase in epidermal cells and enhancing transglutaminase expression, it is expected to moisturize the epidermis and strengthen the skin barrier function. Additionally, it supports pore tightening and improves skin elasticity by stimulating hyaluronic acid production in dermal cells and reinforcing actin fibers.

CyPA*-QD blended cream* Blank After 12 weeks

Test method : A cream with $\mbox{ CyPA}^{\circ}-\mbox{QD1.25\%}$ was applied to the wrinkles around the eyes twice a day for 12 weeks and observed visually.

Whitening extract containing PMFs made from Hirami lemons, a specialty of Okinawa

SEEKWASA EXTRACT Plant-BG™

INCI : Citrus Depressa Peel Extract, Water, Butylene Glycol

SEEKWASA EXTRACT Plant-BG™ is derived from the peel residue of Seekwarter (*Citrus depressa* Hayata) juice. It is formulated to deliver skin-brightening benefits through polymethoxyflavones (PMFs), while also inhibiting matrix-degrading enzymes and suppressing inflammatory factors triggered by ultraviolet rays. This unique botanical extract is ideal for enhancing skincare formulations with targeted efficacy.

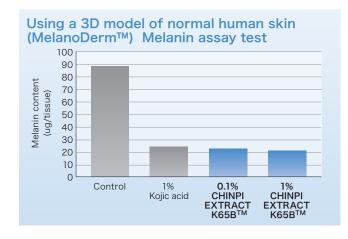


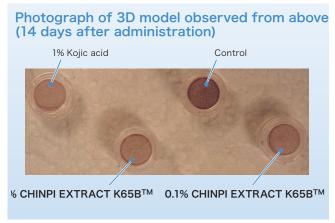


Whitening extract derived from Tachibana of the tangerine family

CHINPI EXTRACT K65BTM INCI: Citrus Aurantium Tachibana Peel Extract, Water, Butylene Glycol

CHINPI EXTRACT K65B™ is derived from the peel of *Citrus tachibana*, a member of the tangerine family. This extract effectively inhibits melanin production in cultured human melanoma cells (HM3KO), offering potential skin-brightening benefits. Additionally, it protects cells from ultraviolet rays, making it an ideal ingredient for advanced skincare formulations.





Whitening extract derived from orange with high content of whitening ingredient PMF

CHINPI EXTRACT PM-F (N)™

INCI : Citrus Aurantium Dulcis (Orange) Peel Extract, Water, Butylene Glycol

CHINPI EXTRACT PM-F (N) $^{\text{IM}}$ is derived from the peel residue of orange (Citrus aurantium dulcis) juice. This extract demonstrates a stronger melanin production inhibitory effect at lower concentrations compared to other brightening agents. It works by maintaining an acidic environment within melanosomes, thereby reducing tyrosinase proteins. Additionally, it suppresses ultraviolet-induced COX-2 expression and reduces the production of PGE2, which triggers inflammation.

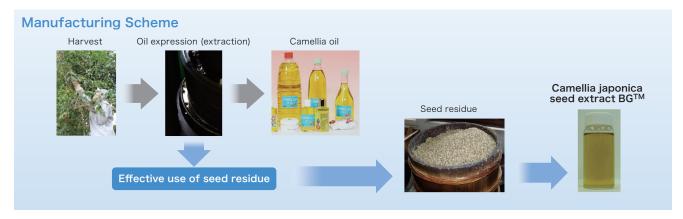


Test method: A cream with Chinpi extract was applied twice a day for 8 weeks on a forearm which was exposure to UV.

Beautiful skin extract made from Camellia japonica seeds from the Goto Islands, Nagasaki

CAMELLIA SEED EXTRACT Plant-BG™ INCI: Camellia Japonica Seed Extract, Water, Butylene Glycol

CAMELLIA SEED EXTRACT Plant-BG $^{\text{TM}}$ is an extract made from the oil residue of *Camellia japonica* seeds. It is expected to have skin beautifying effects due to its estrogen-like action and anti-aging effects due to its SOD-like anti-oxidant activity.

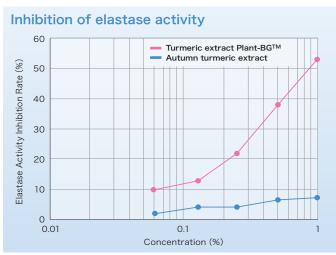


Multifunctional extract from Okinawan turmeric

TURMERIC EXTRACT Plant-BG™

INCI: Curcuma Longa (Turmeric) Rhizome Extract or Curcuma Longa (Turmeric) Root Extract, Butylene Glycol, Water

TURMERIC EXTRACT Plant-BG™ is derived from the rhizome of *Curcuma longa*, commonly known as turmeric. This turmeric variety contains approximately six times more curcumin and 2.5 times more essential oil compared to standard autumn turmeric. It is renowned for its antioxidant properties, estrogen-like effects, and skin-beautifying benefits by inhibiting MMP-2 activity. Additionally, it exhibits anti-wrinkle effects by suppressing elastase activity, making it an ideal ingredient for advanced skincare formulations.

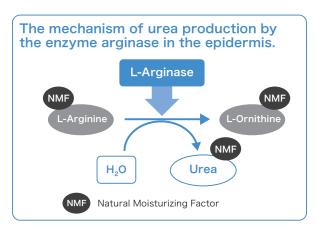


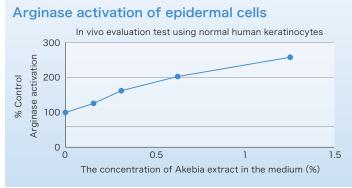
Test: Elastase activity inhibition was measured by adding various extracts and elastase to an elastase substrate (N-Suc-Ala-Ala-Ala-p-nitroanilide).

Ingredient that promotes the production of urea, a natural moisturizing factor

AKEBIA® EXTRACT BG INCI: Akebia Trifoliata Stem Extract, Water, Butylene Glycol

AKEBIA® EXTRACT BG is extracted from the stems of Japanese Akebia quinata Decaisne or Akebia trifoliata Koidzumi (Lardizabalaceae) vines. It is expected to moisturize the skin from the outside and enhance the production of urea, a natural moisturizing factor, by epidermal cells, thereby making the skin fresh and youthful.





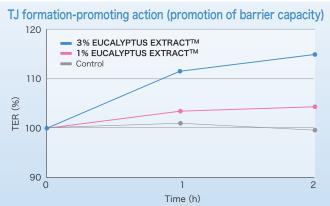
Test: Cultured normal human keratinocytes were treated with AKEBIA* EXTRACT BG at various concentrations and incubated for four days. After incubation, intracellular arginase activity was measured.

Eucalyptus leaf extract derived from baby eucalyptus leaves grown in Oita

EUCALYPTUS EXTRACT Plant-BG™

INCI: Eucalyptus Globulus Leaf Extract, Water, Butylene Glycol

EUCALYPTUS EXTRACT Plant-BG™ is an extract from the leaves of eucalyptus (*Eucalyptus globulus* Labill.) within 3 years of growth. Eucalyptus extract has the greatest TJ (Tight Junction) formation-promoting activity of all 150 plant extracts. Eucalyptus extract enhances the skin barrier function by promoting TJ formation. It is also expected to have whitening, antioxidant, hair growth, anti-inflammatory, glycation inhibition, and antibacterial effects.



Test: Using a human 3D cultured skin model (LabCyte EPI-MODEL12 6D), measurements were performed based on transepithelial electrical resistance (TER).

Emulsion that blends well with the skin, gives elasticity to the skin, and has excellent moisturizing properties

Moist milky lotion

Phase	Product name	INCI	Compounding Purpose	wt%
	_	Water	_	Balance
	RG CO P.™	Glycerin		3.00
Α	PEG#1540	PEG-32	Moisturizer	2.00
	_	Pentylene glycol		2.00
	_	Carbomer aq (1.5%)	Thickener	16.0
В	_	Phenoxyethanol	Preservative	a s
В	_	Arginine	PH adjuster	q. s.
	_	Water	Base material	1.00
	RG CO P.™	Glycerin	Moisturizer	2.00
С	UNIOX® HC-40	PEG-40 hydrogenated castor oil	Emulsifier	0.40
	SOLUBULE® GS-01 *Plus!NOF	PPG-13 decyltetradeceth-24		0.60
	_	Butylene Glycol	Moisturizer	0.50
D	PARLEAM® 6 *Plus!NOF	Hydrogenated polyisobutene	Emollient	2.00
	_	Ethylhexyl Palmitate		3.40
Е	LIPIDURE -NR* +Plus!NOF	Polyquaternium-61, glycerin, BG	Skin barrier effect	2.00
	ACROBUTE® 60MB-63 *Plus!NOF	PPG-28-Buteth-35	Moisturizing oil	1.00
	t	otal amount		100.00

[Typical properties] pH : 5.5

Preparation Method

- 1 Weight ingredients for phase A and mix uniformly at R.T..
- **2** Gradually add the phase B into phase A, Add Phase C and mix uniformly.
- 3 Weight ingredients for phase D, then add phase E and mix uniformly at 60±5°C. add the phase E into phase D.
- 4 Stir Phase D+E at 60°C for 30 minutes, then cool. Check the formation state of O / D gel emulsion.
- 5 Add the phase D+E into phase A-C, Stir for 30mintes. (emulsification)
- 6 Add phase F and mix uniformly at R.T..

Whitening serum with Niacinamide for enhanced penetration

Oil control whitening serum

Phase	Product name	INCI	Compounding Purpose	wt%
Α	WILBRIDE® BS-03 *Plus!NOF	PPG-7 Buteth-10	Water-based moisturizing oil penetration enhancer	3.00
	-	Niacinamide	whitening agent	5.00
	_	Water	-	balance
	_	Hydroxyethylcellulose	thickener	0.10
	RG CO P.™	Glycerin	moisturizer	4.00
	_	propylene glycol	moisturizer	4.00
В	-	Butylene Glycol	moisturizer	4.00
В	_	Alcohol	solvent	3.00
	_	Xanthan Gum	thickener	0.15
	LIPIDURE®-PMB *Plus!NOF	polyquaternium-51, Water	skin protection	0.50
С	_	pH adjuster	pH adjuster	q. s.
	_	preservative	preservative	q. s.
	tot	al amount		100.00

[Typical properties] pH: 5.5

· Preparation Method ·

- 1 Stir Phase A at room temperature until uniform.
- 2 Add Phase B and stir at room temperature until uniform.
- 3 Add Phase C and stir at room temperature until uniform.

Low-stickiness nano-emulsion with a luxurious feel and high squalane content

High squalane serum

Phase	Product name	INCI	Compounding Purpose	wt%
	_	Squalane	oil	3.00
	WILBRIDE* S-753D *Plus!NOF	PEG/PPG/ Polybutyleneglycol-8/5/3 Glycerin, Tocopherol BCME Inducer		3.00
Α	RG CO P.™	Glycerin		5.00
	_	Oleyl Alcohol	Solvent	0.40
	SOLUBULE® GS-01 *Plus!NOF	PPG-13- Decyltetradeceth-24	surfactant	2.50
	UNILUBE® 20MT-2000B	PPG-20- Decyltetradeceth-10	Surractant	1.00
	_	Water	-	3.00
В	_	Water	-	Balance
С	_	pH adjuster	pH adjuster	q.s.
C	_	preservative	preservative	q.s.
		total amount		100.00

3 Add phase C and mix uni formly at R.T..

Preparation Method

 Weigh ingredients for phase A and mix uniformly at R.T..
 Add phase A into phase B at R.T. and mix uniformly at

[Typical properties] pH: 5.5

Multifunctional serum that is non-sticky despite its oiliness

Non-sticky multifunctional oil serum

Phase	Product name	INCI	Compounding Purpose	wt%
A	_	Tocopheryl Acetate	Blood flow promoter	0.05
	_	Phytosteryl/Octyldodecyl Lauroyl Glutamate	Skin repair	0.05
	SOLUBULE® GS-01 *Plus!NOF	PPG-13- Decyltetradeceth-24	Solubilizer	0.50
	LIPIDURE®-NR * Plus!NOF	Polyquaternium-61, Glycerin, Butylene Glycol	Skin protection Encapsulation	2.00
	_	Water	_	0.30
	RG CO P.™	Glycerin	Moisturizer	0.40
	_	Water	_	Balance
	RG CO P.™	Glycerin		15.00
	_	Propylene Glycol	Moisturizer	3.00
	_	Butylene Glycol	Moistarizer	3.00
	PEG#400	PEG-8		2.00
_	MACBIOBRIDE® MG-10E *Plus!NOF	Methyl Gluceth-10	Texture improver	5.00
В	WILBRIDE® S-753D +Plus!NOF	PEG/PPG/ Polybutyleneglycol-8/5/3 Glycerin, Tocopherol	Moisturizing Oil Penetration accelerator	5.00
	_	Trehalose	Heat Absorber	0.50
	-	Dipotassium Glycyrrhizate	Anti- inflammatory	0.05
	_	pH adjuster	pH adjuster	q.s.
		ethylhexylglycerin	preservative	0.10
		total amount		100.00

[Typical properties] pH: 5.5

- 1 Stir uniformly each phase A and B at R.T..
- 2 Add phase A into phase B, then mix uniformly at R.T..

Anti-aging cream

Phase	Product name	INCI	Compounding Purpose	wt%
	_	Glyceryl Stearate		1.00
	UNIOX® HC-60	PEG-60 Hydrogenated Castor Oil	emulsifier	2.00
	_	Sorbitan Stearate		1.00
	_	Cetearyl Alcohol	co-surfactant	3.00
	_	Phytosteryl Hydroxystearate		0.50
Α	_	Neopentyl Glycol Diethylhexanoate		3.00
	PANACET® 800B Triethylhexanoin		oil-agent	4.00
	 Isostearic Acid 		on-agent	1.00
	_	Neopentyl Glycol Dicaprate		10.00
	_	Dimethicone		0.50
	_	Preservative, Antioxidant	_	0.20
	_	Water	_	46.90
	_	Butylene Glycol	moisturizer	6.00
	RG CO P.™	Glycerin	moisturizei	3.00
В	MACBIOBRIDE® MG-10E *Plus!NOF	Methyl Gluceth-10	Moisturizing, texture adjuster	1.00
	_	Xanthan Gum	thickener	0.10
	_	- Carbomer tnickener		0.04
	_	Preservative, Chelating Agent	preservative	0.20
С	_	Sodium Hydroxide, Water	neutralizer	1.50
D	LIPIDURE®-NR +Plus!NOF	Polyquaternium-61, Butylene Glycol, Glycerin	skin protect encapsulant	4.00
	-	Retinol, Caprylic/Capric Triglyceride, Sodium Ascorbate, PEG-40 Hydrogenated Castor Oil	antioxidant	1.00
Е	_	Water	_	Balance
		total amount		100.00

Preparation Method

- 1 Stir Phase A and Phase B at 80°C until uniform.
- 2 Add Phase A to Phase B gradually while emulsifying with a homomixer (7000rpm, 1min, 80°C).
- 3 Add Phase C and stir while cooling until it reaches below 60°C.
- 4 Mix Phase D at 50°C, then add to Phase E at 50°C and stir until uniform.
- 5 Add Phase D+E to Phase A+B+C, and stir until uniform.

It provides a non-sticky, lightweight texture, leaving the skin plump and supple

Multi-use aroma cream

Phase	Product name	INCI	Compounding Purpose	wt%
^	_	Water	_	Balance
A	RG CO P.™	Glycerin	moisturizer	2.00
	_	Propylene Glycol	moisturizer	5.00
	PARLEAM® 4 *Plus!NOF	Hydrogenated Polyisobutene		6.00
	_	Ethylhexyl Palmitate	oil	6.00
	_	Dimethicone (100mPa·s)		6.00
В	_	Behenyl Alcohol Emulsion Stabilizer		2.80
	SOLUBULE® GS-01 *Plus!NOF	PPG-13- Decyltetradeceth-24		0.60
	NONION™ S-40	PEG-75 Stearate	emulsifier	0.80
	_	Glyceryl Stearate		1.60
	_	Tocopherol	antioxidant	0.05
	LIPIDURE®-PMB +Plus!NOF	Polyquaternium-51, Water	skin protection	1.00
С	ACROBUTE® 60MB-63 *Plus!NOF	PPG-28 Buteth-35	Moisturizer fragrance control	2.00
	_	pH adjuster	pH adjuster	q.s.
		ethylhexylglycerin		0.10
		total amount		100.00

• Preparation Method •

- Measure phase-A ingredients and stir at 80°C until dissolved.
- 2 Measure phase-B ingredients and stir at 80°C until dissolved.
- 3 Gradually add phase-A into the phase-B and emulsify using a homomixer at 5,000 rpm for 10 minutes at 80°C.
- 4 After cool down to 25±5 °C using paddle mixer, add the phase-C ingredient and stir until evenly mixed.

Lightweight, non non-sticky texture with water resistance

Silicone-free high water content W/O cream 97% Natural origin index

Phase	Product name	INCI	Compounding Purpose	wt%
Α	BIOLEAM®-L * Plus!NOF	C9-12 Alkane, C13-15 Alkane, C14-22 Alcohols	oil	12.00
	GLYMOIST®MO *Plus!NOF	Glyceryl Oleate, Glycerin	W/O emulsifier	3.50
	_	phenoxyethanol	preservative	0.30
	_	water	_	77.45
	RG CO P.™	glycerin	moisturizer	5.00
В	LIPIDURE*-PMB *Plus!NOF	Polyquaternium-51, water	skin protection	1.00
	_	Magnesium Sulfate	stabilizer	0.75
		total amount		100.00

Preparation Method

- 1 Stir Phase A and Phase B at room temperature until uniform.
- 2 Gradually add Phase B to Phase A while stirring with a homogenizer (5000 rpm, 5 minutes).

Milk loation for face mask

Emulsion for face mask

UNIOX* ST-30IS Sorbeth-30 Tetraisostearate UNILUBE* 20MT-2000B PPG-20 Decyltetradeceth-10 SOLUBULE* GS-01 +Plus! NOF PARLEAM* 6 +Plus! NOF PANACET* 800B Triethylhexanoin - Water PEG#1540 Sorbeth-30 Tetraisostearate emulsifier emulsifier emulsifier emulsifier blood flow stabilizer Stabilizer Tocopheryl Acetate Bal	0.75 0.15 3 0.05 5 4 0.05
SOLUBULE® GS-01 +Plus! NOF - Stearyl Alcohol stabilizer PARLEAM® 6 +Plus! NOF Polyisobutene PANACET® 800B Triethylhexanoin - Tocopheryl Acetate Water - Bal	3 0.05 5 4 0.05
+Plus!NOF - Stearyl Alcohol stabilizer PARLEAM® 6 +Plus!NOF POlyisobutene PANACET® 800B - Tocopheryl Acetate - Water - Bal	0.05 5 4 0.05
PARLEAM® 6 +Plus!NOF Polyisobutene PANACET® 800B Triethylhexanoin Tocopheryl Acetate Water Parleam® 6 +Plus!NOF Stabilizer Stabilizer Stabilizer Ball Ball	5 4 0.05
+Plus!NOF Polyisobutene stabilizer PANACET® 800B Triethylhexanoin - Tocopheryl Acetate blood flow stimulant - Water - Bal	4 0.05
 Tocopheryl Acetate Ball Water Ball 	0.05
- Tocopheryl Acetate stimulant - Water - Bal	
	1
PEG#1540 PEG-32	lance
	1.5
B UNIGLY® G-2 Diglycerin moisturizer	0.3
RG CO P.™ Glycerin	5
- Tranexamic Acid whitening agent	2
C Pentylene Glycol moisturizer	1.5
- Xanthan Gum thickener	0.1
D Water —	7.88
- Carbomer thickener	0.12
ArgininepH adjuster	0.87
Phenoxyethanol preservative	0.3
CERACUTE® -L *Plus!NOF Methacrylate/Stearyl Methacrylate Copolymer, Glycerin, ButylenGlicol Anti-wrinkle effect	1
ACROBUTE® MB-52 *Plus! NOF PPG-52 butyl ether feel improver	1
MACBIOBRIDE® MG-20P +Plus! NOF PPG-20 methyl glucose ether Enhancement of active ingredient penetration	1
total amount 10	

- 1 Stir Phase A and Phase B at 80°C until uniform.
- 2 After stirring Phase C at room temperature until uniform, add to Phase B and stir until uniform.
- 3 Maintain 80°C and gradually add Phase A to Phase B while stirring with a homo mixer.
- 4 Stir at 80°C, 5000 rpm for 5 minutes.
- 5 Add phase D, which has been pre-dispersed with a disperser, and stir until uniform
- 6 Add Phase E and mix and stir until uniform.

Memo	

Oil agents for makeup remover

■ High quality hydrocarbons that can produce various textures

PARLEAM®/POLYSYNLANE® series INCI: Hydrogenated polyisobutene

The PARLEAM® series is a colorless, odorless, and tasteless high-purity hydrocarbon that exhibits good stability. 7 different lineups are available to create a variety of textures. We recommend Pearl Ream EX and 6 for skincare. Moreover, to enhance the richness skincare formulations, high-viscosity products such as 18, 24, and 46 can be blended with low-viscosity PARLEAM®, offering a diverse range of textures to suit various product needs. *Plus! NOF Formulation is P.51, 52, (42, 44, 70)

viscosity	Low viscosity products				High Viscosity Products		
grade	3	4	LITE	-	V	HV	SV
Kinematic viscosity (37.8°C, mm ² /s)	1.4	3.1	10.6	20.1	-	-	-
Kinematic viscosity (98.9°C, mm ² /s)	-	-	2.5	3.6	300	800	4,700
Refractive index	High <						→ Low
Special Features	Volatility Airy feeling	Good compatibility with silicone high detergency	Balanced lightness and emollient feeling	Squalane-like texture	A trace amount added	t in makeup cosmetics du (0.1-0.5%) gives richness air care products add lust	s to skin care products,

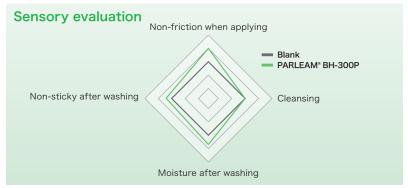
A newly developed oil formulation that combines excellent usability with the unique characteristics of high-viscosity PARLEAM®/POLYSYNLANE®

PARLEAM®/ POLYSYNLANE® BH-300P

INCI: Hydrogenated polyisobutene

PARLEAM® BH-300P is a newly developed product that combines the ease of handling found in low-viscosity PARLEAM® with the outstanding properties of high-viscosity PARLEAM®. When used in skincare formulations, it delivers excellent film-forming properties, enhances the sensation of hydration, and reduces stickiness after drying.

Kinematic viscosity (40.0°C, mm²/s) 145.5,
 Refractive index (20°C) 1.470



Test method: 5-point grading with PARLEAM® as the standard (3 points) Average of 5 subjects (3 males and 2 females) Formulation: (PARLEAM® BH-300P, PARLEAM® V) 5.0 wt% glycerin 5.0 wt%, 12.6wt% oil, 2.8wt% emulsifier, remainder water

A series of naturally derived emollients with excellent feel and functionality

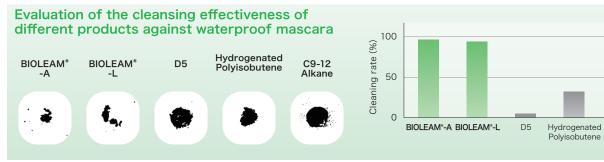
BIOLEAM® series

INCI: Refer to the table on the right

The BIOLEAM® series are high-quality, naturally derived emollients, available in five different lineups to create a variety of textures. BIOLEAM®-A and -L are 100% natural hydrocarbon oils that exhibit excellent compatibility with hydrocarbon oil, polar oil, silicone oil, and UV absorbers, making them highly effective cleansing agents for makeup remover bases.

*Plus! NOF Formulation is P.52, (45)

grade	Α	L	S	EL	R
INCI	C9-12 Alkane, C14-22 Alcohols	C9-12 Alkane, C13-15 Alkane, C14-22 Alcohols	Polydecene, C9-12 Alkane	C14-22 Alcohols	Polydecene
Viscosity (40.0°C,mm ² /s)	1.5	1.7	20	28	300
Cleansing power of makeup	High	◀			Low
NOI	1	1	0.9	1	0.9
Special Features	Highly volatile oil Produces good skin affinity	Volatile oil Good skin affinity and emollient feel	Good skin affinity Emollient feel Water Resistance Inhibition of α-gel crystallization	Squalane-like texture Improved powder dispersion stability	Rich feeling Inhibition of α-gel crystallization



Test method: Waterproof mascara was applied to artificial leather and rubbed with a finger. After rinsing with tap water, the lightness difference was measured using a spectrophotometer to determine the cleansing power.

Amphiphilic material for Makeup remover

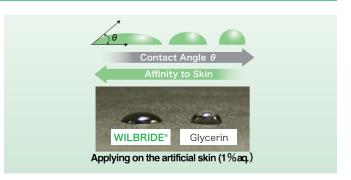
■ Water-soluble oil, Water-Based Moisturizing Oil

WILBRIDE® S-753D

INCI: PEG/PPG/polybutyleneglycol-8/5/3glycerin

WILBRIDE® S-753D is a new concept material, a water-based moisturizing oil, with a low contact angle and excellent affinity to skin. WILBRIDE® S-753D is also a multifunctional ingredient. As an amphiphilic material, it induces bicontinuous microemulsions (BCME) during cleansing, thereby suppressing gelation during rinsing and improving rinsability.

*Plus! NOF Formulation is P.50, (43, 76)





Nonionic surfactant for makeup remover

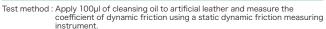
Surfactant for cleansing that reduces friction during application

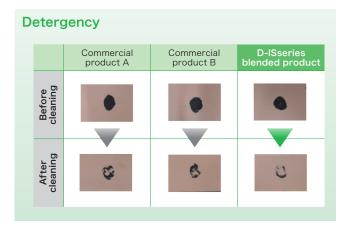
NONIONTM D-IS-400/NONIONTM D-IS-600 INCI : PEG-8 Diisostearate/PEG-12 Diisostearate

NONION™ D-IS series is a high-performance surfactant with high compatibility with polar and non-polar oils, resulting in strong cleansing power. Its feature is the improvement of slipperiness during application, leading to minimal skin irritation.

*Plus! NOF Formulation is P.50



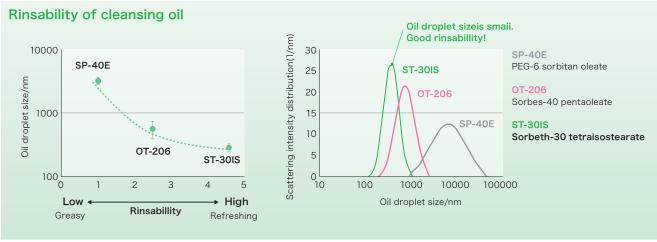




Cleansing base material with high safety and good rinsability

UNIOX® ST-30IS INCI: Sorbeth-30 Tetraisostearate

UNIOX* ST-30IS is a hypoallergenic cleansing nonion with better odor, color, and other qualities compared to Solbeth-30 Tetraoleate.lt is highly compatible with oils such as hydrogenated polyisobutene and olive oil, and thus has high cleansing power. It also forms small emulsified droplets when rinsed, improving rinsability, making it the ideal nonion for oil- and liquid-type cleansing agents. *Plus! NOF Formulation is P.50

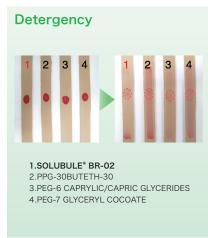


Test method: Measure each particle size after 10 times dilution.

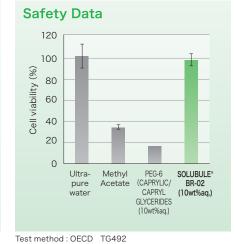
Cleansing Agent with High detergency and Low irritation

SOLUBULE® BR-02 INCI: PPG-30BUTETH-30

SOLUBULE* BR-02 is a high detergency for water-based formulations such as cleansing water. It is characterized by its low irritation to the eyes and skin, and its non-sticky, non-bitter feel. Furthermore, despite its mildness, it is effective in removing blackheads and clearing clogged pores. *Plus! NOF Formulation is P.50, 51



Test method: After applying 5mg of lipstick to artificial leather in a 1cm diameter cirde, 1mL of a 5% aqueous solution was absorbed into cotton. Then, the cotton was rubbed against the artificial leather 10 times with a load of 200g.



Blackheads are visible in pores

After

Blackheads are less visible.
Skin tone is brighter.

Test method:
Cleansing water was applied to a cotton pad and pressed against the face for 3 to 5 seconds. After wiping off, the skin's condition was observed with a microscope after 7 days.

Cleansing oil that pursues high cleansing power and reduced friction

Cleansing oil

Phase	Product name	INCI	Compounding Purpose	wt%
	PARLEAM® 4	Hydrogenated Polyisobutene		17.50
	_	Mineral Oil		5.00
	_	Ethylhexyl Palmitate	Oils	26.00
	NOFABLE® EO-85S	Ethyl Oleate		6.00
	_	Olive Fruit Oil		11.00
	NONION™ D-IS400 Plus!NOF	Peg-8 Diisostearate	Main detergent	5.00
	NONION™ D-IS600 *Plus!NOF	Peg-12 Diisostearate	Reduced friction	10.00
Α	UNIOX® ST-30IS * Plus! NOF	Sorbeth-30 Tetraisostearate	Main detergent Improved rinsability	8.00
	WILBRIDE® S-753D Plus! NOF	Peg/Ppg/Polybutylene Glycol-8/5/3 Glycerin	Moisturizer Good rinsability	2.00
	ACROBUTE® MB-52 *Plus!NOF	Ppg-52 Butyl Ether	Moisturizing oil	2.00
	NONION™ LT-20	Polysorbate 20	Cloud point adjustment	3.00
	_	Preservative, Antioxidants	stability	0.50
	_	Water	Others	4.00
		total amount		100.00

Preparation Method

1 Stir Phase A until uniform.

Fresh feeling with both cleansing power and hypoallergenic properties

Oil-free cleansing gel

Phase	Product name	INCI	Compounding Purpose	wt%
	_	Water	_	26.50
Α	_	Acrylates/ C10-30 Alkyl Acrylate Crosspolymer	Thickener	0.43
	SOLUBULE® BR-02 *Plus!NOF	Ppg-30-Buteth-30	Main detergent	7.00
	WILBRIDE® S-753D *Plus!NOF	Peg/Ppg/Polybutylene Glycol-8/5/3 Glycerin	Cleaning Aids	3.00
В	UNIOX® ST-30IS *Plus!NOF	Sorbeth-30 Tetraisostearate	Detergent	2.00
	_	Bg	Moisturizer	5.00
	RG CO P.™	Glycerin	Moisturizer	5.00
	_	Pentylene Glycol	Preservative	1.00
С	_	Potassium Hydroxide, Water (48%Aq.)	pH adjuster	0.07
		total amount		100.00

[Typical properties] pH: 5.5 Viscosity (25°C): 25,000mPa·s

- 1 When the A phase is prepared and dispersed, add the B phase and mix it at room temperature.
- 2 Add phase C and mix uniformly at room temperature.

BCME-type cleansing gel with excellent cleansing and rinsing properties

BCME type cleansing gel

Phase	Product name	INCI	Compounding Purpose	wt%
	_	Water	_	26.50
Α	_	(Acrylates/alkyl acrylate (c10-30) crosspolymer	Thickener	0.43
	PARLEAM® 6 * Plus!NOF	Hydrogenated polyisobutene		6.00
	_	Ethylhexyl palmitate	Improved cleaning power	5.00
В	PARLEAM® 4 * Plus!NOF	Hydrogenated polyisobutene	ologiming power	4.00
В	-	Peg-7 glyceryl palm oil Fatty acid, glyceres-7	BCME formation	30.00
	RG CO P.™	Glycerin	Cold stabilizer	19.00
	_	Bg	High temperature stabilizer	9.00
С	_	Potassium hydroxide (48%), water	pH adjustment	0.07
		total amount		100.00

Preparation Method

- 1 When the A phase is prepared and dispersed, add the B phase and mix it at room temperature.
- 2 Add phase C and mix uniformly at room temperature.

Cleansing liquid with more cleansing power than oil and a watery feel

BCME type cleansing liquid

Phase	Product name	INCI	Compounding Purpose	wt%
	PARLEAM® 6 *Plus!NOF	Hydrogenated Polyisobutene		6.00
	_	Ethylhexyl Palmitate	Improve detergency	5.00
	PARLEAM® 4 *Plus!NOF	Hydrogenated Polyisobutene	are see genery	4.00
Α	_	PEG-7 Glyceryl Cocoate, Glycereth-7	BCME formation	30.00
	RG CO P.™	Glycerin	low-temperature stabilizer	27.00
	DIAPON® K-SF * Plus!NOF	Sodium Methyl Cocoyl Taurate, Water	High temperature stabilizer	1.00
	_	Water	_	27.00
		total amount		100.00

Preparation Method

1 Stir Phase A until uniform.

Cleansing water that is both cleansing and hypoallergenic, with a moist feel

Mild cleansing water

Phase	Product name	INCI	Compounding Purpose	wt%
	SOLUBULE® BR-02 +Plus!NOF	PPG-30-Buteth-30	main detergent	7.00
	_	Poloxamer 184	Improved rinsability	3.00
	_	Butylene Glycol	Cloud point	1.00
Α	NONION™ LT-221	Polysorbate 20	adjustment	0.80
^	_	Contact us	preservative	0.20
	_	Polyquaternium-10	Prevent the readhesion	0.10
	_	EDTA-2Na	chelating agent	0.10
	_	Water	_	remainder
		total amount		100.00

Preparation Method

1 Stir Phase A until uniform.

[[]Typical properties] pH: 5.5 Viscosity (25°C): ,000mPa·s

Two-layer micellar water

Phase	Product name	INCI	Compounding Purpose	wt%
Α	BIOLEAM®-A * Plus!NOF	C9-12 Alkane, C14-22 Alcohols	Emollient	30.00
	_	Water	_	Balance
	_	Pentylene Glycol	Moisturizer	3.00
	RG CO P.™	Glycerin	Moisturizer	1.00
В	-	Preservative	Preservation	q.s.
Ь	-	Coloring agent	Coloration	q.s.
	_	pH adjuster	pH adjuster	q.s.
	_	Sodium Chloride	Stabilizers	0.10
	_	Alcohols	Stabilizers	3.00
		total amount		100.00

Preparation Method

- 1 Add phase B and mix until the mixture is uniform.
- 2 Add phase A.

• How to Use •

Shake well before use, as it is divided into two layers. Apply an appropriate amount to a cotton pad to use it as a wipe-off toner.

The high-moisturizing cleansing cream that changes its texture from cream to oil

High-moisturizing cleansing cream with a texture that change

Phase	Product name	INCI	Compounding Purpose	wt%
	PARLEAM® EX	Hydrogenated Polyisobutene	Oils	30.00
	_	Ethylhexyl Palmitate		12.00
	ACROBUTE® MB-52 +Plus! NOF	PPG-52 Butyl Ether	Moisturizing oil	2.00
	PARLEAM® 3 +Plus!NOF	Hydrogenated Polyisobutene	Adjuster	10.00
Α	SOLUBULE® GS-01 +Plus!NOF	PPG-13- Decyltetradeceth-24		0.50
	UNILUBE® 20MT-2000B *Plus! NOF	PPG-20- Decyltetradeceth-10	emulsifier	1.00
	_	Glyceryl Stearate		2.00
	NONION™ ST-60	Polysorbate 60		2.00
	_	Cetearyl Alcohol	stabilizer	1.20
	_	Stearyl Alcohol	Stabilizei	0.80
	_	Sorbitol	Rinsing ability	14.90
	_	Water	_	18.50
В	_	Butylene Glycol	Moisturizer	3.00
	_	Sodium Lauryl Sulfate		0.10
	_	Sodium Stearoyl Glutamate	Stabilizer	1.00
С	LIPIDURE*-PMB *Plus!NOF	Polyquaternium-51, water	Skin protection	0.50
	-	phenoxyethanol	preservative	0.50
	to	tal amount		100.00

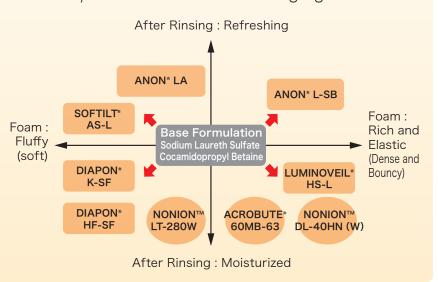
- 1 Mix the phase A and B separately at 80°C.
- 2 Add phase B into phase A and homogenize by homo-mixer (15min, 7000rpm)
- 3 Cool down at R.T. and add phase C.

Mapping Based on the Sensory Characteristics of Cleansing Agents

We conducted a mapping, as shown in the figure on the right, based on the foam texture and the feel after rinsing, using Sodium Laureth Sulfate (SLS) and Cocamidopropyl Betaine as the base formulation.

DIAPON® K-SF, DIAPON® HF-SF, and NONION™ LT-280W create soft foam and leave a moisturized feel after rinsing. ANON® LA and ANON® L-SB are characterized by providing a refreshing feel after rinsing.

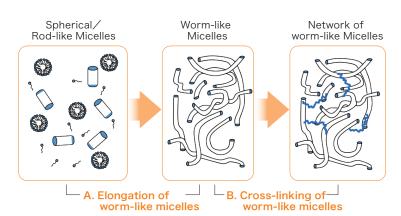
Additionally, LUMINOVEIL® HS-L and NONION™ DL-40HN produce elastic foam and leave a moisturized feel after rinsing.



Thickening method for amino acid surfactants

As shown in the figure on the right, the thickening mechanism of amino acid surfactants first forms wormlike micelles in response to spherical or rod-like micelles formed by the amino acid surfactant. Further, by cross-linking the worm-like micelles, a network is formed and thickening is achieved. worm-like micelles can be thickened by using the nonionic types COMUPOAL* BL, UNISAFE* PGML, the amphoteric-type.

ANONT® GLM-R-LV, the anionic type SOFTILT® AS-L. The thickening can be achieved by using "MACBIO-BRIDE® MG-T" for cross-linking of worm-like micelles.



Thickening Mechanism = Elongation of worm-like micelles × Cross-linking of worm-like micelles

mechanism	Types of thickeners	Product name	INCI name
	Nonionic type	(1) COMUPOAL® BL (2) UNISAFE® PGML	BUTYLENE GLYCOL LAURATE PROPYLENE GLYCOL LAURATE
A. Elongation	Amphoteric-type	(3) ANON [®] GLM-R-LV	SODIUM COCOAMPHOACETATE, water
	Anionic type	(4) SOFTILT® AS-L	SODIUM LAUROYL METHYLAMINOPROPIONATE, water
B. Cross-linking	Polyether type	(1) MACBIOBRIDE [®] MG-T	PEG-120 METHYL GLUCOSE TRIISOSTEARATE, Tocopherol, water

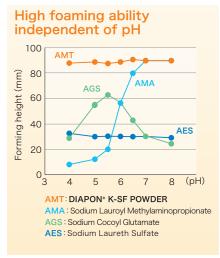
Detergent (taurine-based surfactant)

High-foaming, Low skin irritation cleaning agent

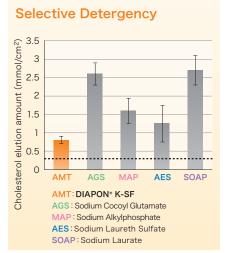
DIAPON® K-SF/DIAPON® K-SF Powder INCI: Sodium Methyl Cocoyl Taurate

DIAPON* K-SF has High foaming properties in a wide pH range. It is a mild detergent with selective cleansing properties that washes away dirt from the skin while leaving behind necessary biological lipids. The product lineup includes 30% aqueous solution and 100% powder products.

*Plus! NOF Formulation is P.61, 62, 63, 66, 67, 68, (51)



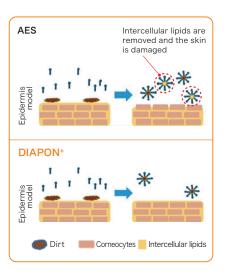
Surfactant concentration 1wt%, 40°C, Milcer method



Test subject : Human chest Treatment method : Active agent concentration 25mM, 10 minutes

Measurement method: Cholesterol is determined by HPLC after tape stripping

*The broken line is the elution amount during water washing.



High-foaming surfactant

DIAPON® HF-SF

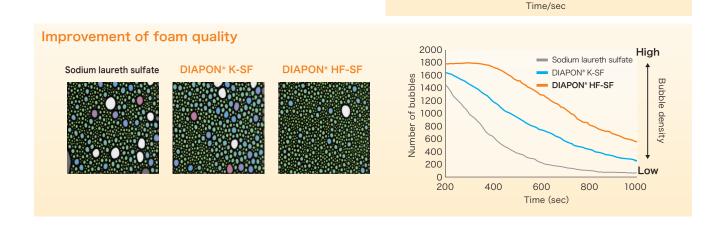
INCI: Sodium Caproyl Methyltaurate, Water

DIAPON® HF-SF is an amino acid-based surfactant. It has shorter fatty acid residues than Sodium MethylCocoyl taurate, resulting in higher dynamic surface tension and better foaming properties.

*Plus! NOF Formulation is P.60, 65

Image chart of dynamic surface tension

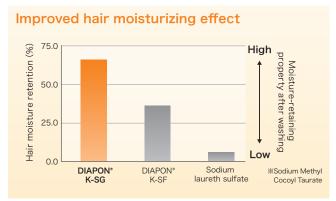
vea



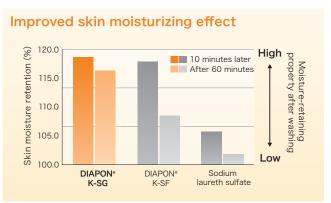
Double taurate surfactant

DIAPON® K-SG INCI: Sodium Taurine Cocoyl Methyltaurate, Water

DIAPON* K-SG contains sodium cocoyl methyl taurine with an additional salt of taurine, resulting in a double taurine structure that is highly moisturizing and also provides a moist feeling to the hair and scalp. It provides excellent foaming and foam stability over a wide pH range, and also inhibits moisture evaporation after cleansing, thus moisturizing hair and skin.*Plus! NOF Formulation is P.60, 62, 64



Measurement method : Moisture content was measured at 60°C and 105°C using a halogen moisture meter on hair samples treated with surfactant.



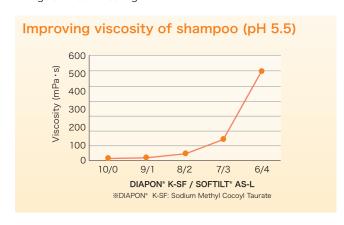
Measurement method: Initial skin moisture levels were measured. A 1 wt% aqueous solution of the active agent was then applied to the skin, left for 30 minutes, rinsed off with water, and the skin's moisture level was re-measured after drying.

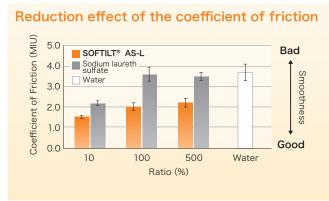
Detergent (alanine-based surfactant)

Amino acid-based surfactant bringing fresh-up feeling on rinsing

SOFTILT® AS-L INCI: Sodium Lauroyl Methylaminopropionate, Water

SOFTILT* AS-L is an amino acid surfactant with a β -alanine structure, a natural amino acid, and is characterized by a refreshing wash. It has a thickening effect in weak acidity. It has an excellent ability to form complexes (coacervates) with cationic polymers and give smooth feeling of hair.





Formulation : Anionic surfactant (Concentration : 10wt%) ANON* BDF-R (Concentration : 5wt%) Polyquaternium-10 (0.5wt%) Water+Others (Remaining)

Instrument : Friction tester

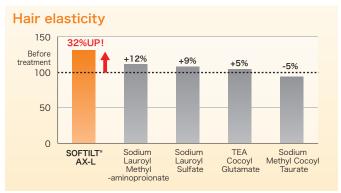
Amino acid-based surfactant leading naturally volume-up hair

SOFTILT® AX-L

INCI : Sodium Taurine Lauroyl Methyl Beta-Alaninate, Water

"SOFTILT" AX-L", kind of the amino acid-based surfactant has Lauroyl methyl beta-alanine structure as main segment and sodium taurine as counter ion. This surfactant brings "bounce and resilience" to hair when it used as shampoo base.

*Plus! NOF Formulation is P.61



Measuring method: Hair shape recovery was compared before and after treatment with the activator using a pure bending test machine.

The elasticity of the hair was defined as.

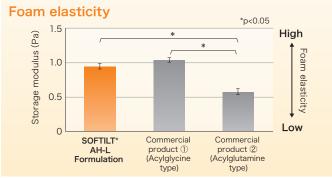
Amino acid-based surfactants that give the cleanser a soft texture

SOFTILT® AH-L

INCI: Lauroyl Methyl Beta-Alanine

SOFTILT® AH-L can be used as a cleaning base that enriches the lather quality and feel of facial cleansers. By neutralizing with any desired amount of alkali, the desired lather and feel can be controlled. Its high active ingredient content reduces the amount of water incorporated into the formulation, making it suitable for use in paste formulations such as facial cleansers.

*Plus! NOF Formulation is P.64



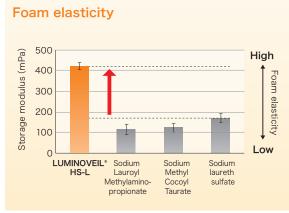
Method : The storage modulus was measured using a rheometer. Formulation : Various activators 30%, glycerin 40%, ANON* LA 20%, water + others Remaining.

Amino acid-based surfactant that result in a new foam quality and rich lather

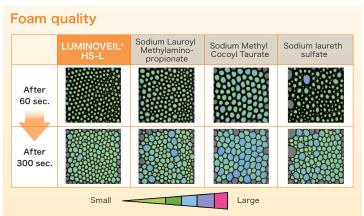
LUMINOVEIL® HS-L INCI: Sodium Lauroyl Hydroxyethyl Beta-Alaninate, Water

LUMINOVEIL® HS-L can be used as a cleaning base featuring "fine, highly elastic foam" and "rich foam volume. The hydroxyl groups in the structure attract neighboring surfactants, increasing the density of the foam and enhancing its fineness and elasticity. The high-density foam exhibits high stability, making it difficult to break, and rich foam can be created.

Plus! NOF Formulation is P.60, 61, 62, 63



Method: Storage modulus was measured using a rheometer with surfactant only

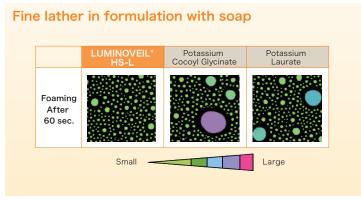


Method: Measured by bubbling method using surfactant only

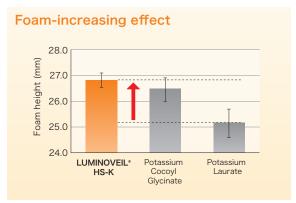
For facial cleanser, amino acid surfactant that produces rich foam

LUMINOVEIL® HS-K INCI: Sodium cocoyl hydroxyethyl Beta-alaninate, water

LUMINOVEIL* HS-K can be used as a base material for cleaning for face washes featuring "fine, highly elastic foam" and "fast foaming". The hydroxyl groups in the structure attract neighboring surfactants, which increases foam density and improves foam texture and elasticity. Even with the pump foamer type, it does not affect the viscosity of the solution and produces elastic foam. Because of its excellent quick foaming property, it provides an excellent foam-increasing effect when added to the formulation. *Plus! NOF Formulation is P.66, 67, 68







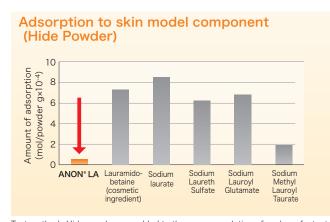
Formulation: Potassium Myristate 15%, Potassium Palmitate 5%, Potassium Stearate 10%, various surfactants 1.5%

Cleaning agent Base material for cleaning (Amphoteric surfactant)

A hypoallergenic amphoteric surfactant characterized by a refreshing wash

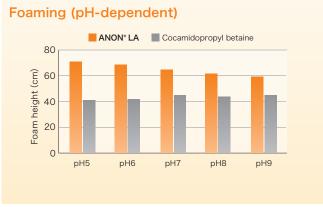
ANON® LA INCI: Disodium Lauriminodiacetate, water

ANON® LA is a surfactant characterized by a very refreshing feeling when washing, even in the weak acidic range. As a dibasic acid type surfactant, it can be used in a wide range of pH from slightly acidic to alkaline, and shows high foaming ability in the same slightly acidic range as that of the skin. It is a mild surfactant with low irritation to the skin due to its amino acid skeleton. *Plus! NOF Formulation is P.61, 64, 65, 66, 67



Test method: Hide powder was added to the aqueous solution of each surfactant, The amount of surfactant remaining in the filtrate was measured, and the amount of adsorption was calculated from the difference

before and after treatment.



Test method: Stirred for 5 seconds and after 1 minute, measured by the milcer

method (40°C)

1 wt% effective content, artificially hard water (CaCO³: 100 ppm),

Artificial sebum 0.5wt%, water Formulation :

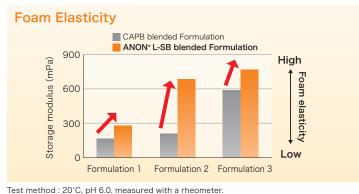
Cleaning agent Base material for cleaning (Amphoteric surfactant)

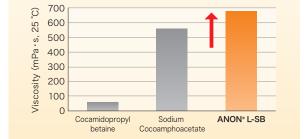
Thickening effect

Rich foam and transparent formulation

ANON® L-SB INCI: Lauryl hydroxysultaine, water

ANON® L-SB exhibits a gentle washing feeling due to its fine, highly elastic foam that reduces friction. It has a hydroxyl group in its structure, which provides excellent thickening effect in difficult-to-thicken formulation. Furthermore, it has excellent compatibility with other surfactants and improves the low-temperature stability of formulated. In terms of feel, it has good rinsing properties and gives a refreshing feeling. +Plus! NOF Formulation is P.62, 68





Formulation: 20 C, pri 6.0, measured with a rheometer.

Formulation: (1) Sodium methyl cocoyl taurane 9.0%, each amphoteric surfactant 6.0%, Lauramide DEA 2.0%, water

(2) Sodium lauroyl methylaminopropioneate 9.0%, each amphoteric surfactant 6.0%, Lauramide DEA 2.0%, water

(3) Sodium lauroyl hydroxyethyl-beta-alaninate 9.0%, each amphoteric surfactant 6.0%, Lauramide DEA 2.0%, water

Test method: Measured with a Type B viscometer at 25°C Formulation: Sodium methyl cocoyl taurane (DIAPON* K-SF) 9.0%, Each amphoteric surfactant 6.0%, Lauramide DEA 2.0%, Water +

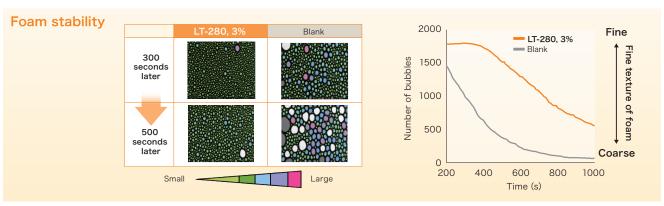
Cleaning agent Foam quality improver

Foam quality improver that creates dense foam

NONION™ LT-280/NONION™ K-2100W/NONION™ S-2200W

INCI: PEG-80 SORBITAN LAURATE/Laureth-100, Water, phenoxyethanol/Steareth-200, water, Pentylene glycol, ethylhexylglycerin

NONION™ LT-280 is a foam improver suitable for pump formers that thickens water in the foam film to produce dense foam with fine texture and good stability. The lineup also includes NONION™ LT-280W, a 60% water-dispersible product, and NONION™ K-2100W and NONION™ S-2200W, which have improved hydrolysis resistance. +Plus! NOF Formulation is P.64



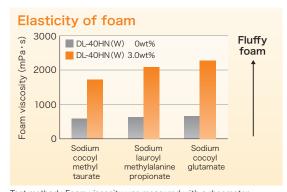
Test method: Air was blown into a 10 fold diluted shampoo formula for 30 seconds to form bubbles, and the bubble size distribution was measured Formulation: DIAPON® HF-SF 8.0%, PQ-10 0.1%, CAPB 4.0%, LT-280 0 or 3.0%

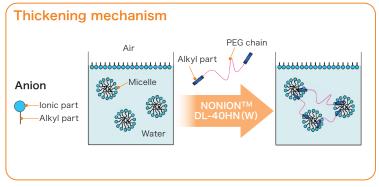
Micelle cross-linker with thickening effect

NONION™ DL-40HN (W) INCI: PEG-75 dilaurate, water

NONION™ DL-40HN(W) has a thickening effect by cross-linking micelles in the water layer, making it ideal for bottle-type shampoos. The micelle cross-linking in the foam film improves the texture and elasticity of the foam, producing a firm, dense foam. As it is liquid at room temperature, it is easy to handle and does not leave a sticky residue after rinsing.

*Plus! NOF Formulation is P.61, 63, 64, 65, 68





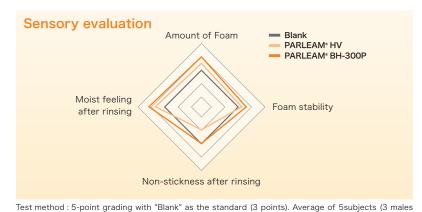
Test method: Foam viscosity was measured with a rheometer. Formulation: Anionic surfactant 1.2%, sodium cocoamphoacetate 1.2%, glycerin 10%, water remaining

A new oil having handleability with the characteristics of high viscosity PARLEAM®/POLYSYNLANE®

PARLEAM®/POLYSYNLANE® **BH-300P**

INCI: Hydrogenated polyisobutene

PARLEAM® BH-300P is a new hydrogenated polyisobutene having handleability of low viscosity with the characteristics of high viscosity PARLEAM®. It improves the foaming and foam retention of cleansing agent. In addition, it greatly improves the moist feeling after rinsing.



and 2 females).

Formulation 1 (Blank): Moisturizer 13.0wt% Oil 48.5wt% Residual Water + Others

Formulation 2 (PARLEAM* HV): PARLEAM* HV 5.0wt% Moisturizer 13.0wt% Oil 48.5wt% Remaining

parts Water + Others

Formulation 3 (PARLEAM* BH-300P): PARLEAM* BH-300P 5wt% Moisturizer 13.0wt% Oil 48.5wt%

Remaining parts Water+Others

59

Moisturizing shampoo that keeps hair moisturized during and after washing.

Moist shampoo

Phase	Product name	INCI	Compounding Purpose	wt%
	_	Water	_	Balance
Α	_	Polyquaternium-10	Conditioning, thickener	1.20
	DIAPON® K-SG +Plus!NOF	Sodium taurine cocoyl methyltaurate, Water	Improve detergency, foam quality, Moisturizer	18.60
	ANON® BDF-SF	Cocamidopropyl betaine, water	Improve detergency, foam quality	15.00
	SOFTILT® AS-L *Plus!NOF	Sodium Lauroyl Methylaminopropionate, water	Improve detergency, thickener	11.00
В	_	Dipropylene Glycol	moisturizer	4.00
_	_	Butylene Glycol	moisturizei	2.00
	_	Caprylyl/capryl glucoside	Improve foam volume	2.00
	_	Disodium cocoyl glutamate	improve roam volume	1.50
	STAFOAM® DL	Lauramide DEA	Improve foam volume, thickener	0.90
	_	(Methylparaben, etc.)	preservative	q.s.
С	_	citric acid	pH adjuster	q.s.
D	NONION™ OT-80	Polysorbate 80	solubilizer	0.80
U	_	fragrance	fragrance	q.s.
		total amount		100.00

• Pr	enara	tion	Method	ı

- 1 Measure out the ingredients for Phase A and stir at 25±5 °C until uniform.
- 2 Heat Phase A to 80±5°C, add the ingredients of Phase B sequentially, and stir until uniform.
- 3 Adjust pH with phase C.
- 4 Cool to 25 ± 5°C and add Phase D, which was pre-dissolved at 25 ± 5°C beforehand.
 - After stirring, add ion exchange water as needed to adjust the concentration.

Shampoo that creates a rich foam even with high oil content and is excellent for moisturizing after washing hair

High-blending oil shampoo

Phase	Product name	INCI	Compounding Purpose	wt%
	_	water	_	Balance
Α	_	Polyquaternium-10	Conditioning, thickener	0.25
	LUMINOVEIL® HS-L +Plus!NOF	Sodium lauroyl hydroxyethyl beta-alaninate, water	Improve detergency, foam quality, foam elasticity	50.00
В	DIAPON® HF-SF *Plus!NOF	Sodium caproyl methyl taurate, water	Improve foam volume	15.00
	ANON® BDF-SF	Sodium Lauroyl Methylaminopropionate, water	Improve detergency foam quality	11.00
	_	(Methylparaben, etc.)	preservative	q.s.
	UNIOX® ST-40E	Sorbeth-40 tetraoleate	solubilizer	6.00
С	_	Olea europaea (olive) fruit oil	Conditioning	2.00
	_	Argania spinosa kernel oil	Conditioning	1.00
D	_	citric acid	pH adjuster	q.s.
Е	NONION™ OT-80	Polysorbate 80	solubilizer	0.80
_	_	fragrance	fragrance	q.s.
		total amount		100.00

[Typical properties] pH (undiluted solution): 6.1 Viscosity (undiluted solution, 25 $^{\circ}$ C): 330 mPa \cdot s

• Preparation Method •

- 1 Weigh out the ingredients for Phase A and stir at 25±5 °C until uniform.
- 2 Heat Phase A to 80±5°C, add the ingredients of Phase B sequentially, and stir until uniform.
- 3 Separately, weigh out the raw materials for phase C and stir at 80±5°C to dissolve them.
- 4 Add all of phase C in 3 to the liquid in 2 and stir until uniform.
- 5 Adjust pH using phase D.
- 6 Cool to 25±5°C and add phase E, which was previously pre-dissolved at 25±5°C. After stirring, add ion exchange water as needed to adjust the concentration.

[[]Typical properties] pH (undiluted solution): 5.9 Viscosity (undiluted solution, 25 °C): 1,450 mPa·s

Volumizing shampoo to say goodbye to flat hair

Smooth and Volume-rich shampoo

Phase	Product name	INCI	Compounding Purpose	wt%
	-	water	_	Balance
Α	_	Polyquaternium-10, Polyquaternium-7	Conditioning, thickener	0.90
	DIAPON® K-SF * Plus!NOF	Sodium methyl cocoyl taurate, water		30.00
	ANON® BL-SF	Lauryl betaine, water	Improve detergency, foam quality	15.00
В	ANON® LA *Plus!NOF	Disodium lauriminodia- cetate, water	Tourn quanty	4.20
	SOFTILT® AX-L *Plus!NOF	Sodium taurine lauroyl methyl beta-alaninate, water	Improve detergency, thickener	4.80
	NONION™ DL-40HN(W) *Plus!NOF	PEG-75 dilaurate, water	Improve foam volume, thickener	2.00
	_	cocamide MEA		0.80
	_	Dipropylene Glycol	moisturizer	2.00
	_	Disodium cocoyl glutamate	Improve foam volume	0.50
	_	(Methylparaben, etc.)	preservative	q.s.
С	_	citric acid	pH adjuster	q.s.
D	NONION™ OT-80	Polysorbate 80	solubilizer	0.80
D	_	fragrance	fragrance	q.s.
		total amount		100.00

[Typical properties] pH (undiluted solution): 5.7 Viscosity (undiluted solution, 25 °C): 370 mPa \cdot s

Preparation Method

- 1 Weigh out the ingredients for Phase A and stir at 25±5 °C until uniform.
- 2 Heat Phase A to 80±5°C, add the ingredients of Phase B sequentially, and stir until uniform.
- 3 Adjust pH with phase C.
- 4 Cool to 25±5°C and add Phase D, which was pre-dissolved at 25±5°C beforehand. After stirring, add ion exchange water as needed to adjust the concentration.

Shampoo with rich elastic foam makes hair washing fun

Rich foam non-silicon shampoo

Phase	Product name	INCI	Compounding Purpose	wt%
Α	_	water	_	Balance
A	_	Polyquaternium-10	Conditioning, thickener	0.50
	ANON® BDF-R	Cocamidopropyl betaine, water	Improve detergency,	16.70
	PERSOFT® EF	Sodium laureth sulfate, water	foam quality	16.40
	LUMINOVEIL® HS-L *Plus!NOF	Sodium lauroyl hy- droxyethyl beta-ala- ninate, water	Improve detergency, foam quality, foam elasticity	3.00
В	RG CO P.™	glycerin	moisturizer	2.00
	_	glycosyl trehalose	moisturizer	0.10
	STAFOAM® DL	Lauramide DEA	Improve foam volume, thickener	1.50
	LIPIDURE®-C *Plus!NOF	Polyquaternium-64, Phenoxyethanol, water	conditioning	0.10
	_	(Methylparaben, etc.)	preservative	q.s.
С	_	citric acid	pH adjuster	q.s.
D	NONION™ OT-80	Polysorbate 80	solubilizer	0.80
D	_	fragrance	fragrance	q.s.
		total amount		100.00

[Typical properties] pH (undiluted solution): 6.0 Viscosity (undiluted solution, 25 °C): 870 mPa·s

$\bullet \ \mathsf{Preparation} \ \mathsf{Method} \ \bullet$

- 1 Weigh out the ingredients for Phase A and stir at 25±5 °C until uniform.
- 2 Heat Phase A to 80±5°C, add the ingredients of Phase B sequentially, and stir until uniform.
- 2 Adjust pH using phase C.
- 4 Cool to 25±5°C and add Phase D, which was pre-dissolved at 25±5°C beforehand. After stirring, add ion exchange water as needed to adjust the concentration.

Sulfate-free amino acid shampoo with rich foam

Phase	Product name	INCI	Compounding Purpose	wt%
	_	water	_	Balance
Α	_	Polyquaternium-10	Conditioning, thickener	0.50
	LUMINOVEIL® HS-L +Plus!NOF	Sodium lauroyl hydroxyethyl beta-alaninate,water	Improve detergency, foam quality, foam elasticity	20.00
	ANON® L-SB *Plus!NOF	Lauryl hydroxysultaine, water	Improve detergency, foam quality, foam elasticity, thickener	20.00
В	DIAPON® K-SF * Plus!NOF	Sodium methyl cocoyl taurate, water	Improve detergency, foam quality	10.00
	STAFOAM® DL	Lauramide DEA	Improve foam volume, thickener	1.50
	MACBIOBRIDE® MG-T	PEG-120 methyl glucose triisostearate, water	thickener	0.10
	_	ethylhexylglycerin	preservative	0.10
С	_	citric acid	pH adjuster	q.s.
D	NONION™ OT-80	Polysorbate 80	solubilizer	0.80
D	_	fragrance	fragrance	q.s.
		total amount		100.00

· Preparation Method ·

- 1 Weigh out the ingredients for Phase A and stir at 25±5 °C until uniform.
- 2 Heat Phase A to 80±5°C, add the ingredients of Phase B sequentially, and stir until uniform.
- 3 Adjust pH with phase C.
- 4 Cool to 25±5°C and add Phase D, which was pre-dissolved at 25±5°C beforehand. After stirring, add ion exchange water as needed to adjust the concentration.

Premium transparent body soap with excellent lather and moisturizing feeling after rinsing

Oil in Moisturizing Body wash

Phase	Product name	INCI	Compounding Purpose	wt%
Α	_	Water	_	62.00
A	_	hydroxyethyl cellulose	thickener	0.40
	NAA®-122	lauric acid	. Improve	8.00
В	NAA®-142	myristic acid	detergency, foam	2.40
	NAA®-160	palmitic acid	quality	0.80
С	-	Potassium hydroxide (48%), water	neutralizer	6.00
	DIAPON® K-SG * Plus!NOF	Sodium taurine cocoyl methyltaurate, water		2.00
D	SOFTILT® AS-L + Plus!NOF	Sodium lauroyl methylamino propionate, water	Improve detergency,	2.00
	ANON® GLM-R-LV	Sodium cocoamphoacetate, water	foam quality	4.00
	ANON® BDF-SF	Cocamidopropyl betaine, water		4.00
	UNIOX® ST-40E	Sorbeth-40 tetraoleate	solubilizer	3.00
Е	_	Macadamia integrifolia seed oil	moisturizing oil	0.50
F	ACROBUTE® 60MB-63 *Plus!NOF	PPG-28-Butes-35	Improve moisturizing efficacy after rinsing off	2.00
		total amount		100.00

- 1 At room temperature, add the polymers of Phase A to the water little by little and pre-disperse them to avoid lumps.
- 2 After confirming the dispersion, raise the temperature to 80°C, add Phase B, and stir until uniform.
- 3 Neutralize phase C by feeding in a little at a time at 80°C.
- 4 Phase D is added at 80°C and stirred until uniform.
- 5 Phase E is pre-mixed at 80°C, cooled to room temperature, and stirred with Phase F.
- 6 Phase F is added to the mixture and stirred.

[[]Typical properties] pH (undiluted solution): 5.7 Viscosity (undiluted solution, 25 °C): 370 mPa \cdot s

Amino acid-based surfactant-based body soap with dense foam for gentle cleansing

Transparent body soap with dense foam without rubbing

Phase	Product name	INCI	Compounding Purpose	wt%
	_	water	-	Balance
Α	LUMINOVEIL® HS-L *Plus!NOF	Sodium lauroyl hydroxyethyl beta- alaninate, water	Detergents, foaming agents, Foam elasticity improver	25.70
	ANON® BDF-SF	Cocamidopropyl betaine, water	Detergents,	12.80
	DIAPON® K-SF * Plus!NOF	Sodium methyl cocoyl Taurate	foaming agents	2.00
	NAA® -122	lauric acid		3.70
В	NAA® -142	myristic acid	Detergents,	2.20
Ь	NAA® -160	palmitic acid	foaming agents	0.90
	_	Stearic Acid		0.90
	STAFOAM® DL	Lauramide DEA		2.00
	UNISAFE® PGML	Propylene Glycol Laurate	thickener	2.00
С	MACBIOBRIDE® MG-T +Plus! NOF	Peg-120 methyl glucose triisostearate, water	en londino.	1.00
	_	(Methylparaben, etc.)	preservative	proper quantity
D	_	Potassium Hydroxide	pH adjuster	4.00
		total amount		100.00

	Preparation Method •
1	Weigh Phase A and stir at 75±5°C until uniform.
2	Weigh Phase B separately and stir at 75±5°C until uni-

3 Add all of Phase B to Phase A and stir until uniform.

form.

- 4 Add phase C sequentially and stir until uniform.
- 5 Adjust pH using phase C.

Foam body soap with elastic foam that lasts while washing

Body wash with long-lasting foam (Pump foamer)

Phase	Product name	INCI	Compounding Purpose	wt%	
	_	water	_	Balance	
	LUMINOVEIL® HS-L * Plus! NOF	Sodium lauroyl hydroxyethyl beta- alaninate, water	Detergents, foaming agents Foam elasticity improver	16.70	
Α	ANON® L-SB	Lauryl Hydroxysultaine, water	Detergents, foaming agents	5.00	
	NONION™ DL-40HN(W) *Plus!NOF	Peg-75 dilaurate, water	Foam quality improver, Foam elasticity improver	3.00	
	RG CO P.™	glycerin	moisturizer	5.00	
В	_	Butylene Glycol	moisturizei	2.00	
	_	(Methylparaben, etc.)	preservative	proper quantity	
С	_	citric acid	pH adjuster	proper quantity	
	total amount				

[[]Typical properties] pH (undiluted solution): 7.0、Viscosity (undiluted solution, 25 °C): 10 mPa·s

Preparation Method Weigh Phase A and stir at 25±5°C until uniform.

- 2 Add phase B sequentially and stir until uniform.
- 3 Adjust pH using phase C.

[[]Typical properties] pH (undiluted solution): 8.7 $\,\cdot\,$ Viscosity (undiluted solution, 25 $\,^{\circ}$ C): 2,000 mPa $\,\cdot\,$ s

Mild body wash

Disease	Dun dund mann	INOL	Compounding	w ⁻	t%
Phase	Product name	INCI	Purpose	rich foam	fluffy foam
	_	water	_	Balance	Balance
	NONION™ DL-40HN(W) * Plus!NOF	PEG-75 dilaurate, water	Foam quality	3.00	_
	NONION™ LT-280W * Plus!N0F	PEG-80 sorbitan laurate, water	improver	_	6.00
Α	DIAPON® K-SG *Plus!NOF	Sodium cocoylmethyl taurine taurine, water	Detergent, foaming agent	8.00	8.00
	SOFTILT® AS-L *Plus!NOF	Sodium lauroyl methylamino propionate, water	Detergent, Foam quality improver	3.00	3.00
	ANON® BDF-SF	Cocamidopropyl betaine, water	detergent, foaming agent	6.00	6.00
	RG CO P.™	glycerin	Moisturizers, Stability improvement	10.00	10.00
	_	citric acid	pH adjuster	proper quantity	proper quantity
		total amount			100.00

Preparation Method

1 Stir Phase A at room temperature until uniform.

Soap-free, amino acid-based face wash cream with a fluffy lather that refreshes and cleanses

Amino acid-based refreshing face wash cream

Phase	Product name	INCI	Compounding Purpose	wt%
	RG CO P.™	glycerin	Moisturizer, stability improver	41.62
	SOFTILT® AH-L +Plus!NOF	Lauroyl methyl beta-alanine	detergent	28.63
Α	ANON® LA *Plus!NOF	Disodium lauriminodiacetate, water	Detergents, foaming agents	18.75
	ANON® LA Powder +Plus!NOF	Disodium Iauriminodiacetate		1.53
	_	Cocamide MEA	foaming agent	1.43
	_	Glyceryl Stearate SE	solubilizer	1.27
	UNIOX® HC-60	PEG-60 Hydrogenated Castor Oil	feel improver	2.86
	_	Glycol Distearate	Stability improver	1.91
В	_	Potassium Hydroxide	neutralizer	0.96
В	_	water	-	Balance
total amount				

[Typical properties] pH (10%): 6.3

$\bullet \ \mathsf{Preparation} \ \mathsf{Method} \ \bullet$

- 1 Weigh Phase A and stir at 80±5°C until uniform.
- Weigh Phase B separately and stir at 25±5°C until uniform.
- 3 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 4 Cool to 30 C or less.
- 5 After defoaming with a vacuum, fill the container.

Facial cleansing cream with amino acid-based weakly acidic foam to gently cleanse the face

Weakly acidic face wash cream rich in amino acids

Phase	Product name	INCI	Compounding Purpose	wt%	
	RG CO P.™	glycerin	Moisturizer, stability improver	59.00	
	DIAPON® HF-SF *Plus!NOF	Sodium caproylmethyl taurine, water	Fast foaming agent (foam-enhancing agent)	12.00	
Α	NAA®-142	myristic acid	Detergents, foaming agents	5.00	
, ,	STAFORM® DL	Cocamide DEA	Stability improver	2.80	
	_	Disodium EDTA	chelating agent	0.05	
	_	(e.g., phenoxyethanol)	preservative	proper quantity	
	_	water	_	Balance	
В	DIAPON® K-SF POWDER * Plus!NOF	Sodium methylcocoyl taurine	Detergents, foaming agents	20.40	
	total amount				

Preparation Method

- 1 Weigh out the ingredients for Phase A and stir at 80± 5°C until uniform.
- 2 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 3 Cool to 30°C or less.
- 4 After defoaming with a vacuum, fill the container.

[Typical properties] pH (1%): 6.6

Facial cleansing cream that blends well with water and gently cleanses skin with plenty of lather

Facial cleansing cream with plenty of foam for gentle cleansing

Phase	Product name	INCI	Compounding Purpose	wt%
	RG CO P.™	glycerin	Moisturizer, stability improver	26.95
	NAA® -142	myristic acid		12.63
	ANON® LA * Plus! NOF	Disodium Laurimino- diacetate, water	Detergents,	9.12
	NAA® -122	lauric acid	foaming agents	4.86
Α	SUNAMIDE® C-3	Sodium PEG-4 Cocamide Sulfate		0.52
	_	stearic acid	Detergents,	9.33
	NAA® -160	palmitic acid	foam improvers	1.91
	NONION™ DL-40HN(W) *Plus!NOF	PEG-75 dilaurate, water	Foam thickener, thickener	3.08
	_	glyceryl stearate	emulsifier	1.70
	_	sorbitan stearate	Emulsifiers, solubilizers	0.21
В	DIAPON® K-SF POWDER +Plus! NOF	Sodium methylcocoyl taurine	Detergents, foaming agents	5.00
	_	Potassium Hydroxide	neutralizer	5.54
С	_	Tetrasodium EDTA	chelating agent	0.21
	_	water (esp. cool, fresh water, e.g. drinking water)	_	Balance
D	LIPIDURE® -PMB +Plus!NOF	Polyquaternium-51, water	Skin protection, moisturizer	0.21
	_	Polyquaternium-7	Thickeners, foam improvers	0.04
	to	otal amount		100.00

[Typical properties] pH (10%): 9.6

- Weigh out the ingredients for Phase A and stir at 80± 5°C until uniform.
- 2 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 3 Weigh out the ingredients for phase C and stir at 40± 5°C until uniform.
- 4 Add all of Phase C in 3 to the liquid in 2 and stir at 80 ±5°C until uniform.
- 5 Cool to 40 °C.
- 6 Add the raw materials of phase D sequentially to the liquid in 5 and stir at 40±5°C until uniform.
- 7 Cool to below 30°C, defoam with a vacuum, and pack into containers.

Dense foam face wash cream with no feeling of tightness

Phase	Product name	INCI	Compounding Purpose	wt%
	NAA®-142	myristic acid		21.00
	ANON® LA *Plus!NOF	Disodium Lauriminodiac- etate, water	Detergents, foaming agents	2.50
	ANON® BDF-R	Cocamidopropyl betaine, water		1.25
	NAA®-160	palmitic acid	Detergents, foam	6.00
	_	stearic acid	improvers	3.00
Α	LUMINOVEIL® HS-K +Plus!NOF	Sodium Cocoyl Hydroxyethyl Beta-Alaninate, water	Detergents, foam im- provers foaming agent	5.00
	_	Polyquaternium-7	Foam quality improver, Stability improver	0.20
	RG CO P.™	glycerin	moisturizer Stability improver	20.00
	_	glycol distearate	Stability improver	3.00
	PEG#400	PEG-8	feel improver	5.00
	_	(e.g., phenoxyethanol)	preservative	proper quantity
В	_	Potassium Hydroxide	neutralizer	6.00
D	_	water	_	Balance
		total amount		100.00

• [Preparation	Method ·

- 1 Weigh out the ingredients for Phase A and stir at 80±5 °C until uniform.
- 2 Weigh out the ingredients for Phase B and stir at 25±5 °C until uniform.
- 3 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 4 Cool to 30°C or less.
- 5 After defoaming with a vacuum, fill the container.

[Typical properties] pH (10%): 9.9

Facial cleansing cream with thick, rich lather

Facial cleansing cream with thick foam

Phase	Product name	INCI	Compounding Purpose	wt%	
	RG CO P.™	glycerin	Moisturizer, stability improver	25.00	
	NAA®-142	myristic acid		18.00	
	DIAPON® K-SF *Plus!NOF	Sodium methylcocoyl taurine, water	Detergents, foaming	8.33	
	NAA®-122	lauric acid	agents	3.00	
	ANON® LA *Plus!NOF	Disodium Lauriminodiacetate, water	,	2.50	
	NAA®-160	palmitic acid	Detergents, foam improvers	6.00	
Α	_	stearic acid		3.00	
	ANON® BDF-R	Cocamidopropyl betaine, water	foaming agent	1.25	
	_	Polyquaternium-7	Thickeners, foam improvers	0.20	
	_	glycol distearate	Stability improver	3.00	
	_	Glyceryl stearate (SE)	solubilizer	0.25	
	_	Tetrasodium EDTA	chelating agent	0.05	
	-	(e.g., phenoxyethanol)	preservative	proper quantity	
В	_	water (esp. cool, fresh water, e.g. drinking water)	_	Balance	
	_	Potassium Hydroxide	neutralizer	5.95	
	total amount				

[Typical properties] pH (10%): 9.8

- 1 Weigh out the ingredients for Phase A and stir at 80±5 °C until uniform.
- Weigh out the ingredients for Phase B and stir at 25±5 °C until uniform.
- 3 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 4 Cool to 30°C or less.
- 5 After defoaming with a vacuum, fill the container.

The amino acid-based surfactant's ample micro-foam Facial cleansing cream with both mild feel and good cleansing properties

Mild facial cleansing cream with micro fluffy foam

Phase	Product name	INCI	Compounding Purpose	wt%
	LUMINOVEIL® HS-K †Plus!NOF	Sodium Cocoyl Hydroxyethyl Beta- Alaninate, water	Detergents, foam improvers Foam elasticity improver	30.00
	ANON® BDF-R	Cocamidopropyl betaine, water	_	10.00
	NAA® -142	myristic acid	Detergents, foaming agents	7.90
	NAA® -122	lauric acid	rounning agonto	4.20
	_	stearic acid	Detergents,	6.90
Α	NAA® -160	palmitic acid	foam improvers	5.60
A	RG CO P.™	glycerin	Moisturizers, Stability improver	8.00
	_	glycol distearate	Stability improver	3.00
	LIPIDURE® -C *Plus!NOF	Polyquaternium-64, Phenoxyethanol, water	Skin protectants, moisturizers	2.00
	ACROBUTE [®] MB-52 or ACROBUTE [®] MB-90	PPG-52 BUTYL ETHER or PPG-90 BUTYL ETHER	moisturizer	0.75
	_	(e.g., phenoxyethanol)	preservative	proper quantity
	_	Potassium Hydroxide	neutralizer	5.00
В	_	water (esp. cool, fresh water, e.g. drinking water)		
		total amount		100.00

1 Weigh out the ingredients for Phase A and stir at 80±5 °C until uniform.

Preparation Method

- Weigh out the ingredients for Phase B and stir at 25±5 °C until uniform.
- 3 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 4 Cool to 30°C or less.
- 5 After defoaming with a vacuum, fill the container.

[Typical properties] pH (10%): 9.5

Moist facial cleansing cream with thick elastic foam

Moist facial cleansing cream with sticky foam

Phase	Product name	INCI	Compounding Purpose	wt%
	RG CO P.™	glycerin	Moisturizer, stability improver	25.00
	NAA®-142	myristic acid		18.00
	DIAPON® K-SF *Plus!NOF	NOF taurine, water Detergents,		8.33
	NAA®-122	lauric acid	foaming agents	3.00
	ANON® LA * Plus! NOF	Disodium Lauriminodiace- tate, water		2.50
	NAA®-160	palmitic acid	Detergents,	6.00
	_	stearic acid	foam improvers	3.00
Α	ANON® BDF-R	Cocamidopropyl betaine, water	foaming agent	1.25
	_	Polyquaternium-7	Thickeners, foam improvers	0.20
	_	glycol distearate	Stability improver	3.00
	ACROBUTE® MB-52 * Plus!NOF	PPG-52 butyl Ether	Moisturizers, feel-improving agents	0.50
	_	Glyceryl stearate (SE)	solubilizer	0.25
	_	Tetrasodium EDTA	chelating agent	0.05
	_	(e.g., phenoxyethanol) preservative		proper quantity
В	_	water (esp. cool, fresh water, e.g. drinking water)	_	Balance
	_	Potassium Hydroxide	neutralizer	5.95
		total amount		100.00

[Typical properties] pH (10%): 10.0

- 1 Weigh out the ingredients for Phase A and stir at 80±5 °C until uniform.
- 2 Weigh out the ingredients for Phase B and stir at 25±5 °C until uniform.
- 3 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 4 Cool to 30°C or less.
- 5 After defoaming with a vacuum, fill the container.

Amino acid-based foam face wash with good foam (Pump foamer)

Phase	Product name	INCI	Compounding Purpose	wt%
Α	_	water (esp. cool, fresh water, e.g. drinking water)	-	Balance
	LUMINOVEIL® HS-K * Plus! NOF	Sodium Cocoyl Hydroxyethyl Beta-Alaninate, water	detergent Foam quality improver Foam elasticity improver	20.00
	ANON® L-SB * Plus!NOF			6.70
	NONION™ DL-40HN(W) ⁺ Plus!NOF	PEG-75 dilaurate, water	Foam quality improver Foam elasticity improver	3.00
	RG CO P.™	glycerin	moisturizer	5.00
	_	Propylene Glycol	moisturizei	3.00
В	-	Polyquaternium-7	Foam quality improver Foam elasticity improver	0.50
	_	(Methylparaben, etc.)	preservative	proper quantity
С	– citric acid pH adjuster		proper quantity	
		total amount		100.00

•	Preparation Method •
1	Weigh out the ingredients for Phase A and stir at 25±5 °C until uniform.
2	Add the ingredients of phase B sequentially and stir until uniform.

3 Adjust pH using phase C.

Neutral, transparent facial cleansing gel with plenty of lather for a moist wash

Transparent facial cleansing gel that moisturizes and cleanses

Phase	Product name	INCI	Compounding Purpose	wt%
	-	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	thickener	1.13
Α	_	citric acid	pH adjuster	0.06
	-	water (esp. cool, fresh water, e.g. drinking water)	_	Balance
	DIAPON® K-SF *Plus!N0F Sodium methyl cocoyl taurine, water		detergent foaming agent	24.00
В	ANON® BDF-SF	Cocamidopropyl betaine, water	foaming agent	16.00
	_	Potassium Hydroxide	neutralizer	0.46
	-	(e.g., phenoxyethanol)	preservative	proper quantity
С	COMUPOAL® BL	Butylene Glycol Laurate	thickener	1.00
		total amount		100.00

[Typical properties] pH (undiluted solution): 6.1 Viscosity (undiluted solution, 25 °C): 9,500 mPa-s

Preparation Method Weigh out water, heat to 60±5°C, and add SC-800 little by little with stirring,

2 Weigh out the ingredients for Phase B and stir at 25±5 °C until uniform.

Stir until uniform (Phase A).

- 3 Add Phase B to Phase A and stir at 80±5°C until uniform.
- 4 Add phase C to the above mixed phase and stir at 80± 5°C until uniform.
- 5 Cool to 30°C or less.
- 6 After defoaming with a vacuum, fill the container.

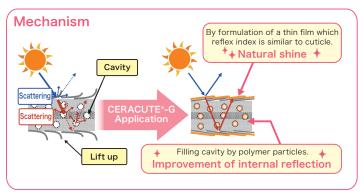
[[]Typical properties] pH (undiluted solution): 7.0 Viscosity (undiluted solution, 25 °C): 13 mPa-s

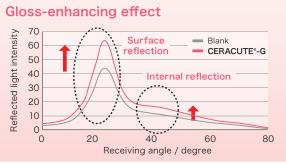
Hair care Functional ingredients

Ceramide polymers with high refractive index showing gloss-improving effects

CERACUTE®-G INCI : Polyquaternium-92, BG, citric acid, water

CERACUTE®-G improves the luster of hair by simultaneously caring for the external and internal hair. For external care, a polymer film with a refractive index equivalent to that of the cuticle improves surface reflection, giving hair a natural shine. For internal care, polymer particles penetrate into the hair and fill damage holes to improve internal reflection.





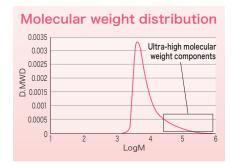
Test method: Damaged hair bundles were immersed in 1% aqueous solution for 1 minute at room temperature, respectively,Reflected light distribution was measured after washing

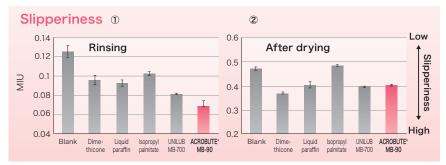
It leaves the hair feeling smooth and silky during rinsing of the treatment.

ACROBUTE® MB-52/ACROBUTE® MB-90 INCI: PPG-52 BUTYL ETHER / PPG-90 BUTYL ETHER

ACROBUTE®, developed with our proprietary technology, features an asymmetric molecular weight distribution containing ultra-high molecular weight components. These ultra-high molecular weight components provide excellent moisturizing effects and enhanced slipperiness when wet. When formulated into treatments, it delivers superior slipperiness during rinsing, surpassing that of silicone.

*Plus!NOF Formulation is (P.45, 50, 52, 67)





Test Method ①: A treatment containing 5% oil was diluted 10 times, and the coefficient of kinetic friction was measured while artificial hair was immersed in the solution.

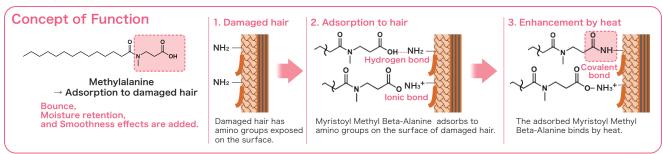
②: The immersed hair was washed with water, dried, and the coefficient of kinetic friction was measured again after drying

Formula: Oil: 5%, Stearyl Alcohol: 5%, Behentrimonium Chloride: 2%, Water: 87%, Balance: 1%

Oil products for using by heat to improve damaged hair

SOFTILT® AH-ME INCI: Myristoyl methyl beta-alanine, cetyl ethylhexanoate

SOFTILT* AH-ME has a β -alanine structure, a natural amino acid, which acts on damaged hair, adsorbing it to the hair surface and giving it a high degree of bounce, moisture retention, and smoothness. The effect is enhanced by heat, such as from a hair iron, and is long-lasting. †PlusINOF Formulation is P.70



Conditioner for using by heat to improve damaged hair

Conditioner for damaged hair

Phase	Product name	INCI	Compounding Purpose	wt%
Α	_	water	_	Balance
	_	_ guar hydroxypropyl trimonium chloride		0.50
	_	hydroxyethyl cellulose	agent	0.10
	_	Propylene Glycol	Moisturizer	4.00
В	CATION™ VB-M FLAKE behentrimonium chloride, Isopropyl Alcohol Conditioning agent Emulsifier		1.20	
	SOFTILT® AH-ME *Plus!NOF	Myristoyl Methyl Beta- Alanine, Cetyl Ethylhexanoate	Heat repair agent	1.00
	_	shea oil	Oil	3.00
С	_	cetyl ethylhexanoate	(feel improver)	1.50
	_	Cetyl Alcohol		2.00
	_	stearyl alcohol	Emulsifier	1.00
	_	behenyl alcohol	Emuismei	0.20
	NONION™ S-40	PEG-75 stearate		0.10
D			Hair repair agent	1.00
		total amount		100.00

Preparation Method

- 1 Add the phase A to water little by little at room temperature to pre-dispersion.
- 2 Add the phase B sequentially to phase A and stir at 80°C until uniform.
- 3 Weigh phase C separately and stir at 80°C until uniform
- 4 While stirring at 80°C, add phase C to phase A+B and stir until uniform.
- 5 Mix with a homo mixer (6,000 rpm) at 80°C for 5 minutes.
- 6 Add Phase D and stir until
- 7 Cool to room temperature with stirring.

Treatment that adds gloss to hair and protects hair

Treatment that adds gloss and protects hair

Phase	Product name	INCI	Compounding Purpose	wt%
	_	water (esp. cool, fresh water, e.g. drinking water)	_	Balance
Α	_	guar hydroxypropyl trimonium chloride	conditioning agent feel improver	0.50
	_	hydroxyethyl cellulose	reerimprover	0.10
	_	Propylene Glycol	moisturizer	4.00
В	CATION™ VB-M FLAKE	behentrimonium chloride, Isopropyl Alcohol	Conditioning agents, emulsifier	1.20
	PARLEAM® BH-300P *Plus!NOF	hydrogenated polyisobutene	Oil (gloss, hair protection)	8.00
	_	shea oil	Oil	3.00
	_	cetyl ethylhexanoate	(feel improver)	3.00
С	_	Cetyl Alcohol		2.00
	_	stearyl alcohol	emulsifier	1.00
	_	behenyl alcohol	GIIIUISIIIGI	0.20
	NONION™ S-40	PEG-75 stearate		0.10
		total amount		100.00

- 1 Add the phase A to water little by little at room temperature to pre-dispersion.
- 2 Add the phase B sequentially to phase A and stir at 80°C until uniform.
- 3 Weigh phase C separately and stir at 80°C until uniform.
- 4 While stirring at 80°C, add phase C to phase A+B and stir until uniform.
- 5 Mix with a homo mixer (6,000 rpm) at 80°C for 5 minutes.
- 6 Cool to room temperature with stirring.

Makeup and Sun care Oil

High quality hydrocarbons that can produce various textures

PARLEAM®/POLYSYNLENE® series Labeled name: Hydrogenated polyisobutene

The PARLEAM® series is a high-purity hydrocarbon that is colorless, odorless, tasteless, and exhibits good stability. The series offers seven different lineups to create a variety of textures. For makeup applications, PARLEAM® 18, 24, and 46 high-viscosity PARLEAM® are suitable. The higher the number, the higher the refractive index and the better the adhesion, so they are recommended for point makeup.

viscosity	Low viscosity products			High Viscosity Products			
grade	3	4	LITE	-	V	HV	SV
Kinematic viscosity (37.8°C, mm ² /s)	1.4	3.1	10.6	20.1	-	-	-
Kinematic viscosity (98.9°C, mm ² /s)	-	-	2.5	3.6	300	800	4,700
Refractive index(20°C)	1.429	1.442	1.456	1.458	1.494	1.499	1.505
Special Features	Volatility Airy feeling	Good compatibility with silicone high detergency	Balanced lightness and emollient feeling	Squalane-like texture	An essential ingredient in makeup cosmetics due to its good adhesionA trace amount added (0.1-0.5%) gives richness to skin care products, Hair care products add luster.		%) gives richness to

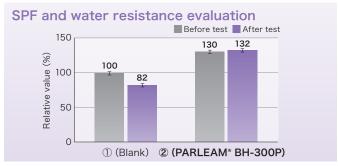
New PARLEAM® with features of high handling and high viscosity PARLEAM®/POLYSYNLANE®

PARLEAM®/POLYSYNLANE® BH-300P

INCI: Hydrogenated polyisobutene

PARLEAM® BH-300P is a newly developed product that combines the ease of handling found in low-viscosity PARLEAM® with the outstanding properties of high-viscosity $\overrightarrow{\text{PARLEAM}}{}^{\text{\tiny{8}}}.$ When used in skincare formulations, it delivers excellent film-forming properties, enhances the sensation of hydration, and reduces stickiness after drying.

※ Kinematic viscosity (40.0°C, mm²/s) 145.5, Refractive index (20°C) 1.470



Test Method: After applying the simple sunscreen formula evenly to a PMMA plate, the SPF was measured before the Wednesday test. The plate was then immersed in a water bath for 80 minutes, dried, and the SPF after the water bath test was measured.

Prescription 1 (Blank):
UV-protectant 16.1 wt%, cyclopentasiloxane 14.6 wt%, water + others (emulsifier) Remaining Formulation 2 (PARLEAM* BH-300P):
UV protector 16.1 wt%, cyclopentasiloxane 9.6 wt%, PARLEAM* BH-300P 9.6 wt%, Water + Other (emulsifier) Remaining

A series of naturally derived emollients with excellent feel and functionality

BIOLEAM® series

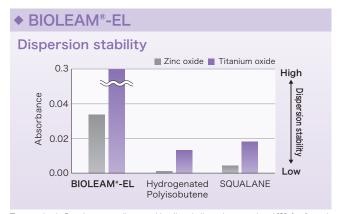
INCI: Refer to the table on the right.

The BIOLEAM® series are high-quality, naturally derived emollients, available in five different lineups to create a variety of textures. BIOLEAM®-A has excellent compatibility with UV absorbers. In addition. EL has excellent powder dispersibility, while S and R have excellent water resistance

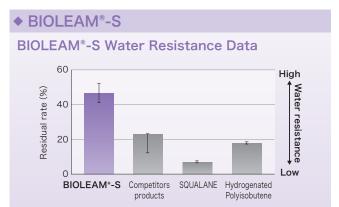
grade	Α	L	S	EL	R
Display name	(C9-12) Alcan (C14-22) Alcohol	(C9-12) Alcan (C13-15) Alcan (C14-22) Alcohol	Polydecen (C9-12) Alcan	(C14-22) Alcohol	Polydesene
Kinematic viscosity (40.0°C, mm²/s)	1.5	1.7	20	28	300
Refractive index (20°C)	1.422	1.426	1.455	1.454	1.474
Natural-derived index	1	1	0.9	1	0.9
Specia Features	Highly volatile oil Produces good skin affinity	Volatile oil Good skin affinity and emollient feel	Good skin affinity Emollient feel Water Resistance Inhibition of α-gel crystallization	Squalane-like texture Improved powder dispersion stability	Rich feeling Inhibition of α-gel crystallization

◆ BIOLEAM®-A、L Volatile data Compatibility with absorbents BIOLEAM*-A BIOLEAM*-L 100 BIOLEAM*-L 0 Ethylhexyl Methoxycinnamate 80 BIOLEAM®-A Rsidue(%) 60 \triangle Butyl Methoxydibenzoylmethane Demethicone 40 Diethylamino Hydroxybenzoyl Cyclopenta-siloxane(D5) Hexyl Benzoate 20 Bis-Ethylhexyloxyphenol Δ 0 Methoxyphenyl Triazine 90 Time(min) \bigcirc : 50% solution; miscible \bigcirc : solution; miscible \triangle : 5% solution; precipitated the next day

Test method: 0.4 g of each oil soaked in filter paper, placed in a thermostatic bath at 20°C, and the weight of the filter paper was measured at each time



Test method: Powders were dispersed in oil and allowed to stand at 40°C for 1 week



Test Method: 0.04 g of the coloring emulsion was applied to artificial leather, Dry for 1 minute, and then rinsed with 1 L of water. The artificial leather before and after rinsing was measured with a spectrophotometer (CM-2500c, Konica Minolta, Inc.).

Makeup and Sun care Emulsifier

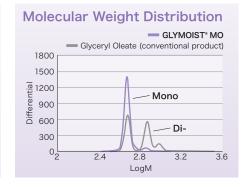
A high internal water phase W/O emulsifier that combines water resistance and a refreshing feel

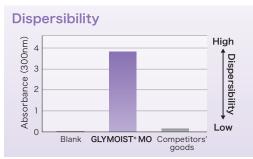
GLYMOIST® MO INCI: Glyceryl Oleate, Glycerin

GLYMOIST® MO, produced using our proprietary manufacturing method, is an emulsifier with high monoester purity. By forming reverse hexagonal liquid crystals, it enables the creation of water-in-oil (W/O) emulsions with high water resistance and temperature stability. Furthermore, it allows for the preparation of high internal water phase W/O emulsions containing over 80% water phase. It also effectively disperses UV scattering agents and other ingredients, making it suitable for use in sunscreen formulations.

*Plus! NOF Formulation is P.76, (45)







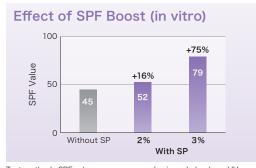
Test method : Dodecane (97.3%) was mixed with glyceryl oleate (0.2%) and stirred. Titanium dioxide (2.5%) was then added and stirred. The mixture was allowed to stand, and the absorbance was measured

Makeup and Sun care Functional ingredients

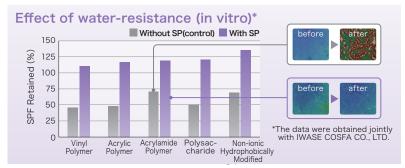
■ Water-resistance agent for sunscreen formulations

MACBIOBRIDE® SP INCI: Poly(1,2-Butanediol)-55/PEG-90 Pentaerythrityl Ether

MACBIOBRIDE® SP confers water resistance to sunscreens and makeup cosmetics. It exhibits a synergistic effect with thickening and emulsifying polymers to enhance SPF values after immersion in water. *Plus! NOF Formulation is P.75



Test method: SPF values were measured using a Labsphere UV-2000S (Labsphere Ltd.).
Formulation: O/W sunscreen cream



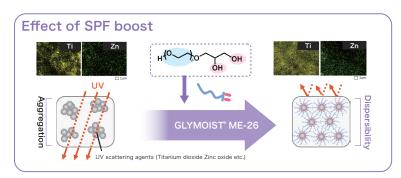
Test method: The plate was immersed a 30°C water bath at 100 rpm for 80 min, and the SPF values were measured using an Labsphere UV-2000S (Labsphere Ltd.). before and after the water bath. The film condition was observed by an optical microscope.

SPF booster to improve the dispersion of UV scattering agents

GLYMOIST® ME-26 INCI: GLYCERETH-26

GLYMOIST® ME-26 enhances the dispersibility of UV scatterers and provides an SPF-boosting effect through its adjacent hydroxyl groups, which act as adsorption sites, and long-chain alkylene oxide groups, which act as steric repulsion sites. Additionally, it has a high moisturizing and feel-improving effect.

*Plus! NOF Formulation is P.75, 76





Test method : Each sensory property(7 levels) was evaluated by 7 persons (male:4, fimale:3). The level of glycerin was difined as 4.

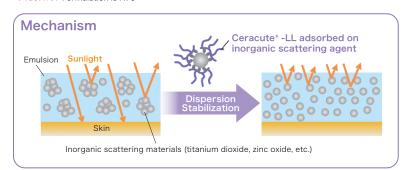
Formulation : Sunscreen(W/O-type) cream containing 5.0 wt% of each ingredients.

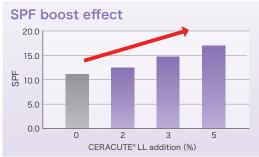
Ceramide-like structural polymer (SPF booster)

CERACUTE® LL Indications : (Ethyl glycerylamide methacrylate/stearyl methacrylate) copolymer, glycerin, BG

With its controlled molecular weight, CERACUTE® LL is more suitable for aqueous formulations than the conventional CERACUTE® L. As a feature, it also has an SPF boosting effect because it improves the dispersibility of inorganic UV scattering agents.

*Plus!NOF Formulation is P.76





Measurement method: SPF values were calculated using an SPF analyzer. Surface treated powder was used as the scattering agent.

Non-fluorinated film-forming agent with water and oil repellent effects Lipidure-MS-FB

LIPIDURE®-MS-FB

(Trimethylsiloxyquinic)

Labeled name: Polyacrylate-47, Ethanol

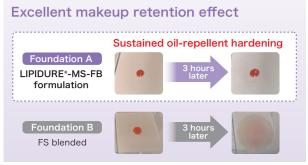
LIPIDURE® MS-FB is a non-fluorinated raw material and exhibits higher water and oil repellency than existing fluorinated film-forming agents. It contains 2-methacryloyloxyethyl phosphorylcholine (MPC), which has excellent biocompatibility, and has a feeling of adhesion and moisturizing to the skin, without stickiness. In addition, LIPIDURE®-MS-FB in the foundation formulation improves makeup retention.

High water and oil repellency and water and oil resistance				
Membrane type	Contact an	gle angle(°)	Membrane Solubility	
Membrane type	Water	Oleic acid	Water	Isododecane
LIPIDURE* -MS-FB	112.5	61.5	Insoluble	Insoluble
FS (Fluorosilicate)	102.1	32.0	Insoluble	Melting

Test method: Membranes were prepared and the contact angle to water and oil and the solubility of the membranes were investigated.

101.1





Test method : Foundation containing 1.3 wt% of LIPIDURE* -MS-FB or FS was applied Artificial sebum was dripped onto the artificial skin and the changes were observed before and after

Base material for makeup with 100% natural origin index

30.0

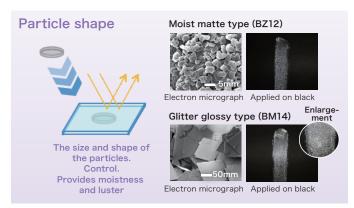
Insoluble

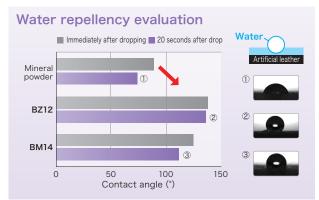
POWDER BASE® BZ12/POWDER BASE® BM14

Indications: Zinc laurate, Boron nitride/magnesium myristate, Boron nitride

The POWDER BASE® series is a metallic soap with a mother powder as its nucleus and controlled particle growth using Nichiyu's proprietary technology. This raw material is a sustainable raw material (nature-derived index 1) and exhibits higher water repellency than mineral-based powders. By controlling the size and shape of the particles, it can impart a moist and shiny feel.

Melting





Test method: A sample was applied on the man-made leather, purified water was dropped on the sample, and the contact angle was measured.

Achieving Both Exceptional Water Resistance and a Smooth, Comfortable Texture

Water proof sunscreen gel (O/W Formulation)

Phase	Product name	INCI	Compounding Purpose	wt%
Α	_	Water	_	Balance
^	_	Pentylene Glycol	Moisturizer	2.0
В	_	Butylene Glycol	Moisturizer	3.0
Ь	_	Xanthan Gum	Thickener	0.05
	_	Ethylhexyl Methoxycinnamate		7.0
	_	Diethylamino Hydroxybenzoyl Hexyl Benzoate	UV	2.5
	_	Ethylhexyl Triazone	absorber	2.0
	_	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine		0.5
_	IPM®-R	Isopropyl Myristate		3.0
С	_	Isononyl Isononanoate	Oil	2.0
	_	Dimethicone		3.0
	NONION® S-40	PEG-75 Stearate		0.6
	_	Sorbitan Oleate	emulsifier	0.6
	_	Glyceryl Stearate		0.8
	NAA®-422	Behenyl Alcohol	Emulsion Stabilizer	0.6
D	_	(Acrylates/alkyl acrylate (C10-30)) crosspolymer	Thickener	0.3
	_	Water	_	9.7
Е	_	Arginine	pH adjuster	q.s.
	_	Alcohol	solvent	2.5
F	MACBIOBRIDE® SP *Plus!NOF	Poly(1,2-Butanediol)-55/ PEG-90 Pentaerythrityl Ether	Water-resistance enhancer	2.5
	_	Phenoxyethanol	preservative	q.s.
		total amount		100.00
	- Tus: NOF	Phenoxyethanol		

· Preparation Method ·

- 1 Add phase A and mix using at 80°C until the mixture is
- 2 Add the pre-mixed phase B to phase A and stir at 80°C until the mixture is uniform.
- 3 Add phase C to another beaker and mix at 80°C until the mixture is uniform.
- 4 Gradually add Phase A+B into phase C using Homogenizing mixer, and stir at 5000rpm and 5min.
- 5 Add the pre-mixed phase D, mix and stir until uniform, cool to room temperature.
- 6 Add the phase E mix and stir until uniform.
- 7 Add the pre-mixed phase F mix and stir until uniform.

Achieving Both High SPF Protection and a Refreshing, Lightweight Texture

Daily Use High-SPF Sunscreen Gel (O/W Formulation)

Phase	Product name	INCI Compo		wt%
	_	Water	_	Balance
	_	Pentylene Glycol	Moisturizer	2.0
Α	GLYMOIST® ME-26 *Plus!NOF	Glycereth-26	SPF Booster	5.0
	 Titanium Dioxide, Hydrated Silica 		UV scatterer	2.5
В	_	Butylene Glycol	Moisturizer	3.0
ь	_	Xanthan Gum	Thickener	0.1
	_	Diethylamino Hydroxybenzoyl Hexyl Benzoate		2.5
	_	Ethylhexyl Triazone	UV absorber	2.0
	_	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine		0.5
	_	Isopropyl Myristate		4.0
С	_	Isononyl Isononanoate Oil		7.0
	_	Dimethicone		3.0
	NONION® S-40	PEG-75 Stearate	Emulsifier	1.0
	_	Behenyl Alcohol	Emulsion Stabilizer	1.0
	_	Sorbitan Oleate	Emulsifier	1.2
	_	Glyceryl Stearate	Emulsifier	1.8
D	_	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Thickener	0.3
	_	Water	_	9.7
Е	- Arginine p		pH adjuster	q.s.
F	F - Phenoxyethanol preservative			
		total amount		100.00

· Preparation Method ·

- 1 Add phase A and mix using at 80°C until the mixture is uniform.
- 2 Add phase B and disperse using dispersion mixer at 6000rpm and 10min.
- 3 Add the pre-mi x ed phase C to phase A+B and stir at 80°C until the mixture is uniform.
- 4 Add phase D to another beaker and mix at 80°C until the mixture is uniform.
- 5 Gradually add Phase A+B +C into Phase D using Homogenizing mixer, and stir at 5000rpm and 5min.
- 6 Add the pre-mixed phase D, mix and stir until uniform, add phase E and cool to room temperature.
- 7 Add the pre-mixed phase F, mix and stir until uniform.

A High-Moisture Sunscreen Cream Combining Water Resistance and a Refreshing Texture (W/O Formulation)

Phase	Product name	INCI	Compounding Purpose	wt%
Α	IPM®-R	Isopropyl Myristate	Oil	2.00
	_	Dimethicone		1.00
	-	Zinc Oxide, Isostearic Acid, Polyhydroxystearic Acid, Hydrogenated Polyisobutene	UV scatterer	9.00
	-	Titanium Dioxide, Aluminum Hydroxide, Isostearic Acid, Diisostearyl Malate, Hydrogenated Polyisobutene		4.00
	_	Ethylhexyl Methoxycinnamate	UV absorber	7.50
	-	Diethylamino Hydroxybenzoyl Hexyl Benzoate		2.50
	_	Beeswax	stabilizer	1.00
	CERACUTE*-LL +Plus!NOF	GLYCERYLAMIDOETHYL METHACRYLATE/ STEARYL METHACRYLATE COPOLYMER, GLYCERIN, BG	Anti-wrinkle effect SPF Booster	1.00
	GLYMOIST® MO *Plus!NOF	Glyceryl Oleate, Glycerin	emulsifier	3.50
	_	Butylene Glycol	moisturizer	1.00
	RG CO P.™	Glycerin	moisturizer	1.00
В	GLYMOIST® ME-26 +Plus!NOF	Glycereth-26	Texture Enhancer SPF Booster	3.00
	LIPIDURE®-PMB *Plus!NOF	Polyquaternium-51, Water	skin protectant	1.00
	_	Magnesium Sulfate	stabilizer	0.75
	_	Ethylhexylglycerin	preservative	0.10
	_	Phenoxyethanol	preservative	0.30
	_	Water	_	Balance
total amount				

• Preparation Method •					
1	Add phase A and mix using with propeller stirring at 400rpm and 80°C.				
2	Add phase B and mix at 80°C until the mixture is uniform.				
3	Gradually add Phase B into Phase A with propeller stirring at 400rpm.				
4	Cool to room temperature.				

5 Add phase C and mixtre.

Prevents makeup from falling off due to friction and dryness caused by masks

Fix mist

Phase	Product name	INCI	Compounding Purpose	wt%
Α	_	Water	_	Balance
	_	Pentylene Glycol	Moisture	2.00
	WILBRIDE® S-753D *Plus!NOF	PEG/PPG/Polybutylene Glycol-8/5/3 Glycerin	Moisture	3.00
	LIPIDURE®-NR +Plus!NOF	Polyquaternium-61, Glycerin, BG	Moisture	5.00
	_	Alcohol	solvent	25.00
	_	Citric Acid	pH adjuster	q.s.
	_	Sodium Citrate		q.s.
	_	Ethylhexylglycerin	Preservation	0.20
В	SOLUBULE® GS-01 +Plus!NOF	PPG-13-Decyltetradeceth-24	solubilization	1.00
	UNIOL® PB-700	Polybutylene Glycol/PPG-9/1 Copolymer	Emollient	0.30
total amount				

[Typical properties] pH (undiluted solution): 5.5

- 1 Stir phase A and phase B respectively at room temperature until they become homogeneous.
- 2 Add phase B to phase A with stirring, and stir until homogeneous at room temperature.



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