



## PT. GRAHA OBOR WIJAYA

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### SURFACTANT LIST PRODUCTS

#### AN-IONIC SURFACTANT

No	Product Name	Chemicals Composition	Form	Characteristics and benefits	Active or solid (%)	Main Application	Packing (kg)
1	Emal 10 Powder HD	Sodium Lauryl Sulphate	Powder	Good foaming for use in shampoo and dentrifice formulation. Excellent biodegradability and stability in emulsion polymerization of PVC paste resin and SBR latex due to low content of inorganic	95	Foaming agent, detergent, emulsifier, And dispersant for pharmaceutical and Cosmetic, toothpaste. Emulsifier for emulsion polymerization.	25 BG
2	Emal 10 Needle	Sodium Lauryl Sulphate	Needle		95		20 BG
3	Emal 10 P HD UNH	Sodium Lauryl Sulphate (High Purity Product)	Powder		95		20 BG
4	Emal 24 D	Sodium Lauryl Sulphate	Liquid		30		200 DM 60 PB
5	Emal TD-A	Triethanolamine Lauryl Sulphate	Liquid	Good foaming especially with oily soil	40	Liquid detergent base, shampoo base, cosmetic, foaming agent and detergent	200 DM
6	Emal AD-25	Amonium Lauryl Sulphate	Liquid	Rich and thick foaming. Compatible with variety of additives	25	Shampoo base, fire extinguishing agent	200 DM
7	Emal AE-25 N (Natural)	Amonium Lauryl Ether Sulphate	Liquid	Easy to dilute with cold water and have good foaming	25	Highly effective as detergent and shampoo base	200 DM
8	Emal 270 N (Natural)	Sodium Lauryl Ether Sulphate	Viscous Liquid	High foaming and good detergency	69	Foaming agent for pharmaceutical and cosmetic, shampoo, detergent	200 DM
9	Emal 70 C	Sodium Lauryl Ether Sulphate	Viscous Liquid		69		200 DM
10	Emal 20 C	Sodium Lauryl Ether Sulphate	Liquid	Suitable as liquid shampoo base	25	Applied to various kind of cleansing product such as foam bath, hand soap, shampoo	200 DM
11	DI - 370	Sodium Alkyl Ether Sulphate	Liquid	Suitable for removing ink particles from waste paper	25	Foaming agent for recycle paper	200 DM
12	Neopelex FS (Soft Type)	Linear Alkyl Benzene Sulphonic Acid (soft type)	Liquid	Acid type	96	Industrial detergent, versatile wetter for emulsion polymerization. Base for laundry detergent. Raw material for syntetic detergent	200 DM
13	Neopelex F-65	Sodium Linear Alkyl Benzene Sulphonate Type (Soft Type)	Paste	Excellent wetting and penetrating	65		170 DM
14	Neopelex F-25		Liquid	Efficient in cleansing mineral oil	25		200 DM

15	Pelex OTP	Sodium dioctyl sulfosuccinate	Liquid	Amphipatic property. Good wetting and penetrating property	70	Wetting and penetrating agent. Emulsifier for emulsion polymerisation	200 DM
16	Levenol WZ	Sodium polyoxyethylene alkylphenyl ether sulphate	Liquid	For PVAc and Acrylate; stability against polycation. Reduce gum-up in polymerisation	27	Emulsifier for emulsion Polymerization	200 DM
17	Poiz 520	Special Polycarboxilate type surfactant	Liquid	High dispersibility in aqueous system for inorganic, especially of calcium carbonate	40	Dispersant for filler and pigment for coating paper in aqueous system	250 DM
18	Poiz 521		Liquid	High dispersability in aqueous system for versatile inorganic, especially for Calcium Carbonate and Ferrite	40	Chelating agent for textile auxiliaries	250 DM
19	Poiz 530		Liquid		40	Dispersant for filler and pigment for coating and paints in aqueous system	250 DM
20	KC -550	Special polycarboxylate type surfactant	Liquid	Effective to avoid the formation of CaCO <sub>3</sub> , Mg(OH) <sub>3</sub> and CaSO <sub>4</sub> scale during desalination process. It can keep the stable operation condition of desalination plant	40	Anti scale agent (desalination water)	250 DM
21	Oligomer - D	Special polycarboxylate type surfactant	Liquid	High dispersibility for detergent	40	Anti redeposition for detergent	250 DM
22	Mighty 150 S	β Naphtalene sulfonate formaldehyde high condensate	Liquid	High dispersability in concrete mix, good solubility in water. It can make concrete strength higher.	40	Water reducer for concrete Superplasticizer for concrete	250 DM
23	Mighty 230 S	Mixture of Naphthalene sulfonate formaldehyde high condensate	Liquid	High dispersability in concrete mix, good solubility in water. It can make concrete strength higher. It can give retarding effect.	35	Water reducer for concrete Superplasticizer for concrete	250 DM
24	Mighty 320 C	Mixture of Polyether (Polycarboxylate)	Liquid	High Performance concrete such as self compacting, high strength, high durability, long slump retention	40	Superplasticizer for high performance concrete	230 DM
25	Mighty 21 N				43		200 DM
26	Mighty - G	Mixture Of Polyalkylaryl Sulfonate	Liquid	Additives for gypsum board, it enables to improve workability and acceleration of setting time	43	Additives for gypsum board	250 DM
27	Softclean - 27 SI	Foaming agents for gypsum board	Liquid	An ionic surfactants which had been developed for the use as foaming agents mostly suitable in the manufacturing process of gypsum board	25	Foaming agents for gypsum board	200 DM
28	Liner Seven 50 R	Release agents for moulding	Liquid	Water base release agents for moulding	-	Water base for moulding of concrete	180 DM
29	Liner Seven 75 OB			Oil base release agents for moulding	-	Oil base for moulding of concrete	180 DM

30	Demol RN	Sodium $\beta$ -Naphthalen Sulfonate formaldehyde condensate	Powder	Dispersant for dyes, pigments. Hydrating agent for agricultural chemicals and emulsion polymerization of synthetic rubber and latex. Wetting and dispersing agent for paper processing	100	Dyeing auxiliaries. Emulsifier for polymerization syntehetic rubber and latex. (Dyestuff, Agro-chemicals, Resin, etc)	25 BG
31	Demol RNL	Sodium $\beta$ -Naphthalen Sulfonate formaldehyde condensate	Liquid	Liquid type of Demol RN	40		200 DM
32	Prioly – 350 DN (MAP netralizer with Potassium Hidroxide)	Potassium monoalkyl phosphate	Liquid	It shows low irritant and mild to skin, excellent foam ability and detergency, characteristic feelings, moisturized and no tightness. Biogradable	35	It is applicable for use in many application : Body shampoo, Face cleanser, Hand cleanser, Head and body shampoo, Shaving foam	200 DM

### NONIONIC SURFACTANTS

No	Product Name	Chemical Composition	Form	HLB	Main Aplication	Pack. (kg)
1	Emulgen 108	Polyoxyethylene Lauryl Ether	Liquid	12.1	Wetter, penetrant and general purpose detergent	200 DM
2	Emulgen 147	Polyoxyethylene Lauryl Ether	Solid	16.3	Emulsifier for in emulsion polymerization process, for vinyl acetate, acrylate	200 DM
3	Emulgen 408	Polyoxyethylene oleyl ether	Liquid	10.0	Mineral oil emulsifier, versatile emulsifier	200 DM
4	Emulgen 420	Polyoxyethylene oleyl ether	Paste to solid	13.6	Emulsifier/dispersant in emulsion polymerization, Wax emulsifier	200 DM
5	Emulgen 707	Polyoxyethylene Fatty Alcohol Ether	Liquid	12.1	Biodegradable wetter/penetrant. General purpose detergent	200 DM
6	Emulgen 709	Polyoxyethylene Fatty Alcohol Ether	Liquid	13.3	Biodegradable wetter/penetrant. General purpose detergent	200 DM
7	Emulgen 906	Polyoxyethylene nonyl phenol ether	Liquid	10.8	Emulsifier for mineral oils	200 DM
8	Emulgen 909	Polyoxyethylene nonyl phenol ether	Liquid	12.4	Wetter/penetrant, detergent, Pulp-pich dispersant, pesticide spreader	200 DM
9	Emulgen 910	Polyoxyethylene nonyl phenol ether	Liquid	12.2	Wetter/penetrant, detergent, Pulp-pich dispersant, pesticide spreader	200 DM
10	Emulgen 911	Polyoxyethylene nonyl phenol ether	Liquid	13.7	Wetter/penetrant, Emulsion stabilizer	200 DM
11	Emulgen 920	Polyoxyethylene nonyl phenol ether	Solid	15.5	Wetter/penetrant Emulsifier in emulsion polymerization process	200 DM
12	Emulgen 930	Polyoxyethylene nonyl phenol ether	Solid	15.1	Wetter/penetrant Emulsifier in emulsion polymerization, Wax emulsifier	200 DM
13	Emulgen 931	Polyoxyethylene nonyl phenol ether	Solid	17.2	Wetter/penetrant Emulsifier in emulsion polymerization, Wax emulsifier	200 DM
14	Emulgen 935	Polyoxyethylene nonyl phenol ether	Solid	17.5	Wetter/penetrant Emulsifier in emulsion polymerization, Wax emulsifier	200 DM
15	Emulgen 950	Polyoxyethylene nonyl phenol ether	Flake	18.2	Wetter/penetrant. Recommended for vinyl acetate, acrylate emulsion polymerization	200 DM

16	Emulgen A-60	Polyoxyethylene derivative	Liquid	12.8	Low foaming dispersant for pigment in paints. Low foaming wetting and penetrating agents. Emulsifier in emulsion polymerization process	200 DM
17	Emulgen A-90	Polyoxyethylene derivative	Liquid	14.5		200 DM
18	Rheodol SP-L10 (Spaan 20)	Sorbitan Mono-laurate	Liquid	8,6	Emulsifier for Cosmetic	200 DM
19	Rheodol SP-S10 (Spaan 60)	Sorbitan Mono-stearate	Flake	4,7	Emulsifier for cosmetics. Emulsifier and dispersant for the preparation of printing inks, printing paste, paint, etc.	20 BG
20	Rheodol SP-O10 (Kaoprint)(Spaan 80)	Sorbitan Mono-oleate	Liquid	4,3	Emulsifier for cosmetics. Emulsifier and dispersant for the preparation of printing inks, printing paste, paint, etc.	200 DM
21	Rheodol AO-15	Sorbitan sesqui-oleate	Liquid	3,7	Emulsifier for preparations of pharmaceuticals and cosmetics	200 DM
22	Rheodol TW-L 120 (Tween 20)	Polyoxyethylene Sorbitan mono-laurate	Liquid	16,7	Emulsifier for Cosmetics and Pharmaceuticals	18 TG/ 200 DM
23	Rheodol TW-P 120	Polyoxyethylene sorbitan mono-palmitate	Liquid	15,6	Additives for colorant and plastics	200 DM
24	Rheodol TW-S 120 (Tween 60)	Polyoxyethylene sorbitan mono-stearate	Liquid	14,9	Stabilizer for latex and emulsifier of emulsion , emulsifier for cosmetic and pharmaceutical	18 TG/200 DM
25	Rheodol TW-O 120 (Tween 80)	Polyoxyethylene sorbitan mono oleate	Liquid	15	Solubilizer for detergent, emulsifier for cosmetic and pharmaceutical	18 TG/ 200 DM
26	Rheodol TW-IS 399 C	Polyoxyethylene Sorbitan Triisostearate	Solid		Thickening agent for body shampoo, face cleanser and shampoo.	18 can
27	Rheodol MS-165	Glycerol Monostearate and Polyoxyethylene Stearate (Self – Emulsifiable type)	Powder	11	Emulsifier For Pharmaceuticals and Cosmetic	20 BG
28	Rheodol MS - 60	Glycerol Monostearate	Powder	3.2	Emulsifier For Pharmaceuticals and Cosmetic.	10 BG
29	Emanon 3299 R	Polyethylene Glycol distearate	Flake	18,3	Versatile emulsifiers (pharmaceuticals, cosmetics, printing paste, emulsion polymerization)	20 BG
30	Emanon 3201 M	Ethylene Glycol distearate	Flake	-	Pearling agent for shampoo	20 BG
31	Pearl Conc	Preparate Ethylene Glycol distearate	Liquid		Pearling agent for shampoo	50 PB
32	Aminon C-01SA	Coconut oil base monoethanolamid	Flake		Foam boosters and stabilizer for shampo and detergent	20 BG
33	Aminon C 11	Derivative coconut oil base monoethanolamide	Liquid		Thickener, foam booster and stabilizer, biogradable	190 DM
34	Aminon C-02 SA	Coconut oil base diethanolamide	Liquid		Foam boosters and stabilizer for shampo and detergent	190 DM
35	Kao Wax EB-P	N,N' Ethylene bisstearamide	White powder	-	Lubricant for ABS resin, polystyrene and copolymers, PVC, polyolefine, phenol resin, POM EPS, PA.	20 BG
36	Kao Wax EB-FF	N,N' Ethylene bisstearamide	White fine powder	-	Lubricant for printing ink, dispersant for pigment, mold releasing agent for powder metallurgy and anti foaming agent.	20 BG
37	Kalchol 6098	Cetyl Alcohol	Beads / solid	MP=49-50	Lubricant for Cosmetics and Plastic	20 BG
38	Kalchol 8098	Stearyl Alcohol	Beads / solid	MP=49-50	Lubricant for cosmetics and plastic	20 BG
39	Kalchol 6850	Cetyl - Stearyl Alcohol	Beads / solid	MP=49-50	Lubricant for cosmetics and plastic	20 BG

## CATIONIC AND AMPHOTERIC SURFACTANTS

No	Product Name	Chemicals Composition	Form	Characteristics and benefits	Active or solid (%)	Main Application	Packing (kg)
1	Sanisol RCA (BKC = Benzalkonium Chlorid)	Alkyl Benzyl dimethyl Ammonium Chloride	Liquid	Water soluble Benzalkonium type disinfectant and fungicide	50	Industrial disinfectant and fungicide	55 PB/ 190 DM
2	Amphitol 20 BS (Lauryl betaine)	Alkyl dimethyl Betaine	Liquid	Lightner and voluminous from than Aminon	31	Foam booster and thickener for shampoo,dishwashing and acidic or high alkaline	200 DM
3	Amphitol 20 HD	Lauryl hydroxy sulfo betaine	Liquid	Fine and Creamy foam with good scum effect Lower irritation than Amphitol 20 BS	30	Foam booster and thickener for Body shampoo.	200 DM
4	Amphitol 20 N	Dimethyl Lauryl Amine oxide	Liquid	Contributes to Improve emulsification, Dispersion and foaming and also mildness to skin. Thickener for Sodium Hypochloride base Bleecher	35	Foam booster for Bodyshampoo and Dishwashing,	190 DM
5	Amphitol 55 AB (Cocoamidopropyl betain)	Cocoamido propyl betain (CAPB)	Liquid	Economical booster, milder to skin than Amphitol 20 BS. Less thickening effect than other Amphitol	30	Foam Booster for Body Shampoo,Body /Facial wash,Dishwashing,Dtergent etc.	200 DM
5	Asfier 103	Specially compounded hydrogenated fatty amine	Liquid	Good stabilizer and emulsion for asphalt		Rapid setting asphalt emulsion	150 DM
6	Asfier 208	Condensed amine short chain	Liquid	Good stabilizer and emulsion for asphalt		Slow setting asphalt emulsion	165 DM
7	Quartamin D 86 P / Quartamin D86 PL	Dialkyl dimethyl ammonium chloride	White solid		75	Emulsifier,dispersant, antistatic, surface treating agent, hair rinse, softening	160 DM 175 DM
8	Quartamin 86 P Conc.	Alkyl trimethyl ammonium chloride	White solid		63	Softening agent for textile, primary for hair rinse	20 TG / 160 DM
9	Levenol M-08	Quaternary ammonium salt	Liquid	Excellent migration ability for dyeing process of acrylic fiber	30	Migrator for dyeing process of acrylic fiber	190 DM
10	Levenol PAN	Quaternary ammonium salt	Liquid	Excellent effect of migration and retardation for dyeing process of acrylic fiber	40	Retarder for dyeing process of acrylic fiber	190 DM
11	Levenol PAN - 50	Quaternary ammonium salt	Liquid		50		190 DM

**Lain-lain**

No	Product Name	Chemical Composition	Form	Active (%)	Main Application	Pack. (kg)
1	PD-30 (Soft Type)	Sodium Linear Alkyl Benzene Sulphonate	Powder	30	Detergent base, soap	20 bag
2	Emulsifier PK		Liquid		Excellent emulsifier not only for pigment printing reducer, but also dyeing printing reducer	200 DM
3	MAP 20	Mono alkyl phosphat	Flake		Body shampoo, face cleaner, hand cleanser, shaving foam	20
4	Softex A-208		Liquid		Anionic Surfactant for softening agent for laundry detergent, textile finishing	180
5	Palmac 98-12	Lauric Acid	Flake			25
6	Tetranyl L1/90	Dihydrogenated Tallowylethyl Hydroxyethylmonium methosulfate & Ditallowoyethyl hydroxyethylmonium methosulfate	Solid Paste		Softener	190

**Untuk bidang :**

**Agricultural  
Pharmaceutical  
Tooth Paste**

**Fermentation  
Cosmetics  
Polymerization**

**Palm Oil Fractination  
Detergent  
Construction**

**Metal Foundry  
Water treatment  
Oil Field**

**For AGROCHEMICAL FIELD :**

Agrisol P-309  
Agrisol P-322  
Agrisol PN-90 N  
Agrisol P-319A  
Agrisol P-382  
Agrisol P-308  
Agrisol WP-10  
Agrisol P-280 SH  
Agrisol P-300  
Agrisol A-425 N  
Agrisol A-430 N  
Agrisol A-430 N

**CONSTRUCTION :**

Liner Seven 50 R  
Softclean 27 SI  
Mighty 185 S  
Mighty 150 S  
Mighty 215 C  
Mighty 21 N

**FERMENTATION :**

GIA 200  
GIA 200 (lorry)  
Rheodol SP-S 10

**TEXTILE :**

Scourol FC-75  
Kaoprint  
Demol RN  
Levenol RCA  
Levenol WZ  
Emulsifier TS/PK  
Levenol M-08 A  
Sanisol RCA P/B

**SOFTENER :**

Softex A-208  
Quartamin D86P

**PALM OIL :**

Emal 10 Needle