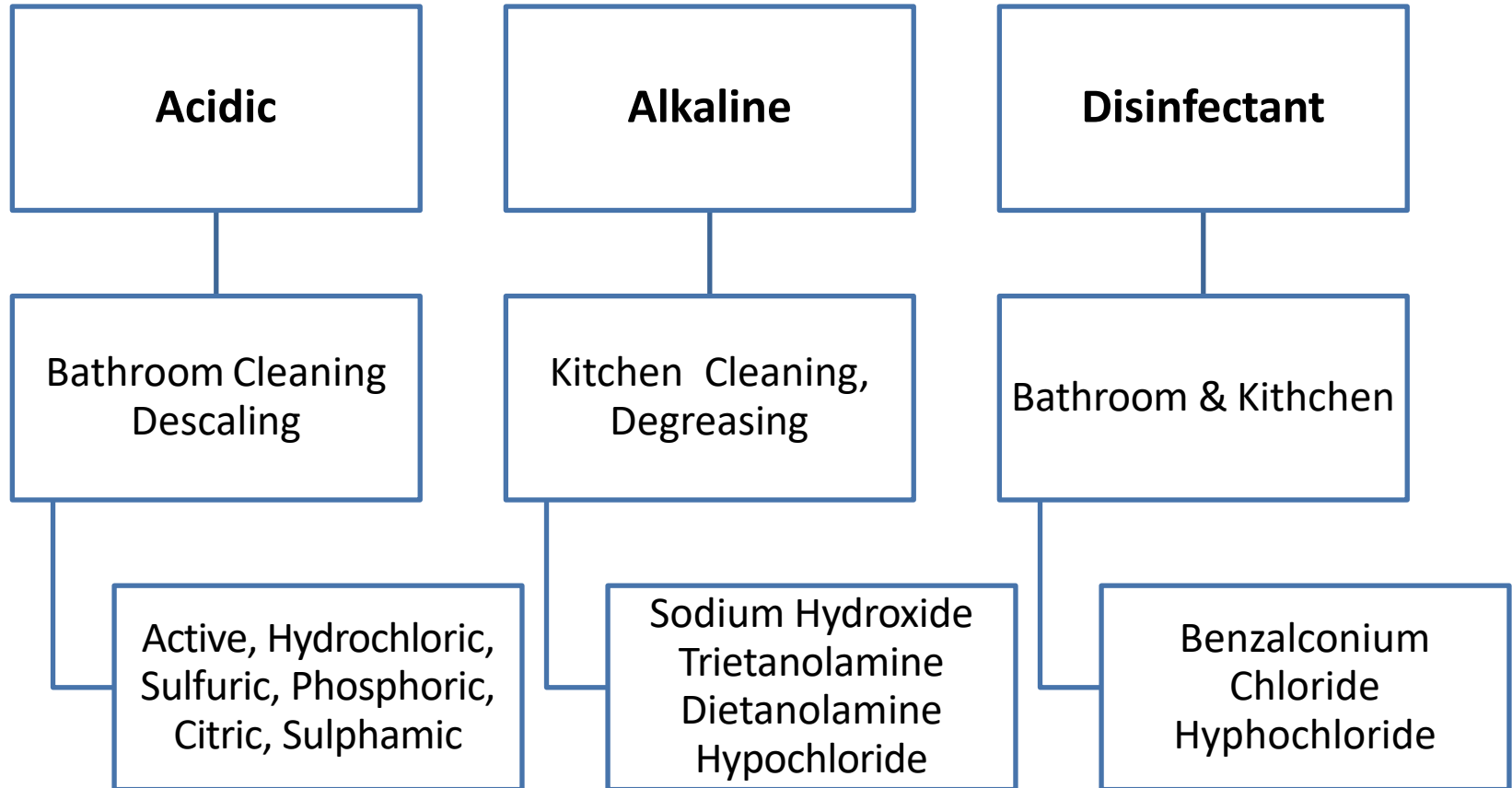


# INNOVATIVE CLEANING PRODUCTS

# GENERAL STRUCTURE OF PRODUCTS



# CONSISTENCY and FOAM ENHANCER-COST EFFECTIVE AGENTS

**TEQ HPMC (Cellulose Ethers )**

**TEQAMINE CPO (Cocamidopropylamine Oxide )**

**TEQAMINE LO-E ( Alkyldimethylamine Oxide )**

**TEQPON ML4 (Cocamide MIPA & Laureth-4 )**

**TEQROSYL 30 (Sodium Lauryl Sarcosinate)**

**TEQAMID DEA; DCP (Coco DEA; Palm DEA )**

# CONCANTRATED ACIDIC CLEANER

## Spreader , Stain remover

- **TEQFEEL DET 335 V2**(Modified Polydimethylsiloxane)
  - Super spreader, decrease the surface tension of water, thus allowing water to penetrate; this will let you reduce your surfactant consumption.

## Surface Active

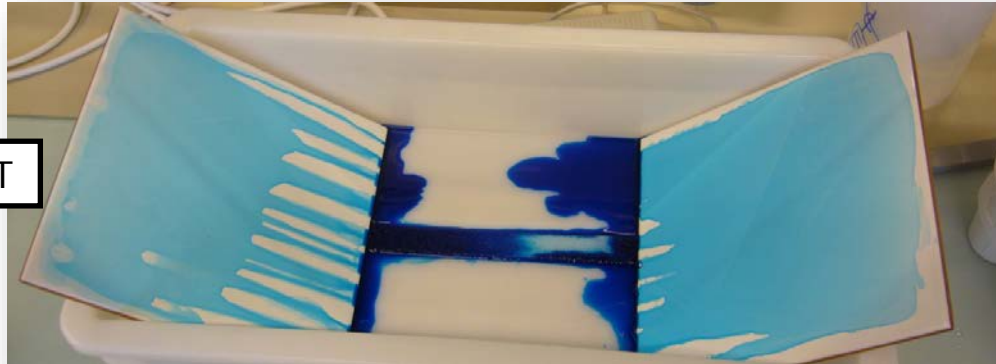
- **TEQPON AW** (Fatty Amine Ethoxylated and Fatty Alcohol Ethoxylated)
- Surfactant mixture that gives high thickness to acids
- **TEQNON APL 101**(Caprylyl / Capryl Glucoside) (%0,5-3)
  - High cleaning effect, natural origin

# Effect of Super Spreading Agent in Toilet Cleaners

## TEQFEEL DET 335 V2

Improved surface coverage is obtained by adding super spreader to a market leading commercial product.

Trade product T



Trade product T and  
**TEQFEEL DET  
335V2**

Less scale formation due to super spreaders;  
You can either increase performance or reduce cost of your current product.

Trade product T



Trade product T and  
**TEQFEEL DET  
335V2**

# HYDROGEN PEROXIDE

## Surface Active

- **TEQPON 9966**(Anionic/Nonionic/Amphoterics Blends)
- Anionic/Nonionic/Amphoterics Blends in peroxide media
- **TEQPON AW** (Fatty Amine Ethoxylated and Fatty Alcohol Ethoxylated)
  - Economical, fast and easy application for toilet cleaners
  - Different acids and hydrogen peroxide can be thickened with a single product.
  - Time and energy saving
  - High performance

## Opacifier

- **TEQWHITE 428** (Acrylates Styrene Copolymer)
- Hydrogen Peroxide opacifier
- **TEQPOLYMER 903** (Hydrophobic modifier ethoxylated urethane %35 -%4-6 )
  - No need to neutralization
  - It can be used in peroxide, cationic, weak acids, metal cleaners and sprayable products.  
Counterpart of Ciba Salcare
- **TEQPOLYMER 953** (Acrylic/Acrylate Ester Copolymer)
- Anionic acrylic polymer 30% - 3-4%
  - Neutralization is needed

# TEQPON AW

Acid Thickener



INCI: Fatty Amine Ethoxylated, Fatty Alcohol Ethoxylated

## Advantages

- Quick and solution for toilet cleaners
- Different acids can be thickened with a single product
- Time and energy saving
- Superior lime remover power
- High performance

## Product Features

- Colorless, viscous liquid up to 30°C
- Yellowish opaqueliquid up to 10°C
- Different amounts of use depending on the acid type

# LIME REMOVER SPRAY

## Active ingredient

- Phosphoric Acid, Citric Acid

## Surface Active

- **TEQLAM RFT**(Fatty Amine Derivative, IPA)
  - Mixture of cationic and non-ionic surfactants
  - Good soaking power
  - Prevents the stain re-adhering
  - Water stain removal & water repellency
  - Antistatic
  - Traffic film remover ( traffic film: the stain layer on car)

## Dispersing Agent

- **TEQPOLYMER 568 N** – (Homopolymer of acrylic acid)
  - 2% use
  - Highly effective dispersant against calcium carbonate

## Super spreader

- **TEQFEEL DET 335 V2**(Modified Polydimethylsiloxane)
  - Super spreader, decrease the surface tension of water, thus allowing water to enter under the stain



# GENERAL CLEANING

## Surface active

- **TEQNON APL 101** (Caprylyl / Capryl Glucoside) (%0,5-2,5)
  - Readily biodegradable ecological products, soluble in high alkaline media,
  - Nonionic with degreasing and soaking properties
- **TEQNON 111-8** (Undeceth-8) ( %0,-2 )
- **TEQROSYL 30** (Sodium lauryl sarcosinate)
  - Teqrosyl mild, soap- detergent with excellent wetting and foaming properties.
  - It provides good detergency and good rinsing properties.
  - It is compatible with anionic, cationic and nonionic surfactants

## Performance Product

- **TEQPOLYMER UZM** (Carboxylic Copolymer )( %0,5-1)
  - Dust and stain retarding between two cleanings
  - Outstanding oil and dirt removal properties
  - Prevents the formation of water stains on the surface.

## Dispersing Agent

- **TEQPOLYMER 568** %48 (Homopolymer of acrylic acid) ( %2)
  - Very effective dispersing agent against calcium carbonate

## Thickener

- **TEQPOLYMER 953** (Acrylic/Acrylate Ester Copolymer )( %3-4)
  - Anionic acrylic polymer 30% - 3-4%
  - Neutralization is needed

## Super Spreader

- **TEQFEEL DET 335 V2** (Modified Polydimethylsiloxane)
  - Superspreader, decrease the surface tension of water, thus allowing water to enter under the stain

## Preservative

- **TEQGUARD IND** ( %0,1) CIT/MIT

# Stain Removal Performance with **TEQFEEL DET 335 V2** on Vinyl Tile Surface



Ketchup sause, 18h

after cleaning with  
F4 trade product

after cleaning with  
F4 + **TEQFEEL DET 335 V2**



Soy sause, 18h

after cleaning with  
F4 trade product

after cleaning with  
F4 + **TEQFEEL DET 335 V2**

# OIL-STAIN REMOVER

## Surface Active

- **TEQNON APL 101** (Caprylyl / Capryl Glucoside)(%0,5-2,5)
- Readily biodegradable ecological products, soluble in high alkaline media
- Nonionic with degreasing and Soaking properties
- **TEQLAM RFT** (Fatty Amine Derivative, IPA) (%1-2)
- **TEQNON 6/24** (C12-14 Alcohols Ethoxylate) (1-5)

## Solvent

- **TEQSOLV NS 200** (Butyl Levulinate)
- Excellent oil removal performance
  - Compatible with solvent-based formulas
  - Natural solvent, stable between pH 5-9

## Performance Product

- **TEQPOLYMER UZM** (Carboxylic Copolymer )(%0,5-1)
  - Dust and stain retarding between two cleanings
  - Outstanding oil and dirt removal properties

## Superspreader

- **TEQFEEL DET 335 V2** (Modified Polydimethylsiloxane)
- Superspreader, decrease the surface tension of water, thus allowing water to enter under the stain

## Preservative

- **TEQGUARD IND CIT/MIT**

# TEQSOLV NS 200

INCI: Butyl Levulinate



## Product features

- Solubilizer for polar and nonpolar components
- Compatible with solvent-based formulas
- Stable between pH:5.0-8.25
- Biodegradable
- Registered in REACH, EPA TSCA and other chemical lists
- GRAS approved, suitable for food contact

Stable for levulinic acid



# GLASS/WINDOW CLEANER

## Surface Active

- **TEQNON APL 101**(%0,5-2,5) Caprylyl / Capryl Glucoside
- Readily biodegradable ecological products, soluble in high alkaline media,
- Nonionic with degreasing and Soaking properties

## Solvent

- **TEQSOLV NS 400** ( % 4-8) (Levulinate Glycerol Ketal)
- Excellent soaking properties
- Dirt, stain, paint, adhesive removal feature
- Natural solvent, stable between pH 5-9

## Performance Product

- **TEQPOLYMER UZM** ( Carboxylic copolymer ) (%0,2-0,4)
- Dust and stain retarding between two cleanings
- Outstanding oil and dirt removal properties

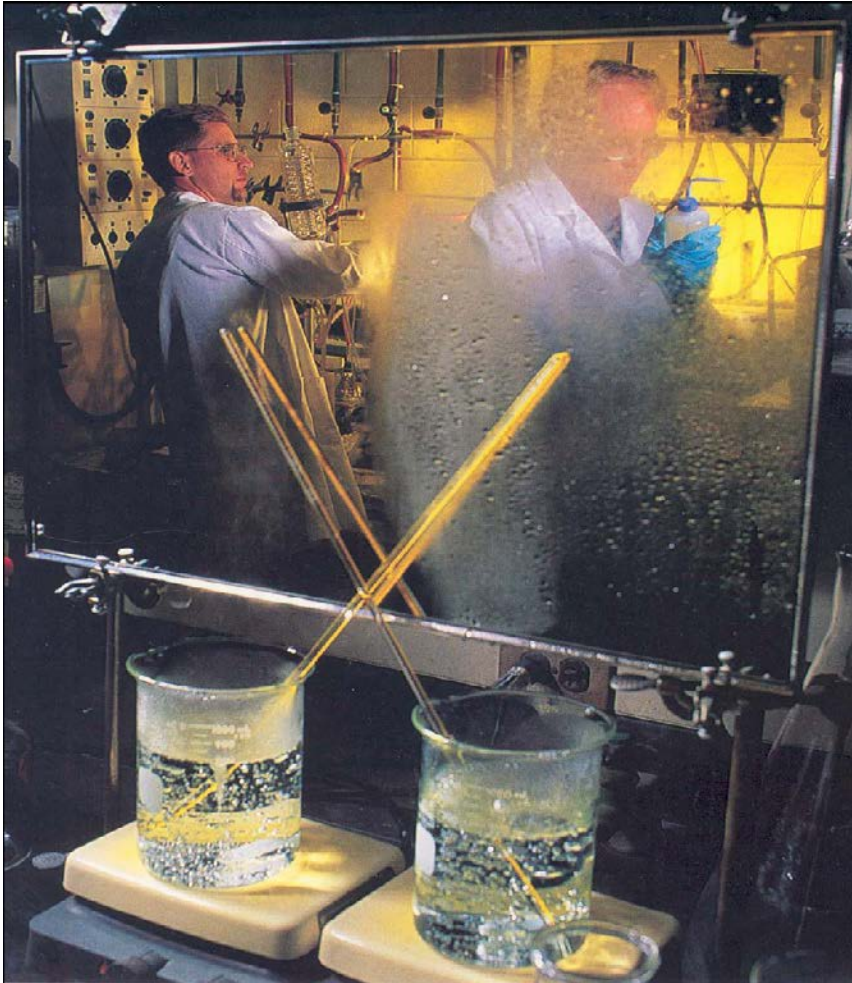
## Superspreader

- **TEQFEEL DET 335 V2** ((Modified Polydimethylsiloxane)
- Superspreader, anti fog property

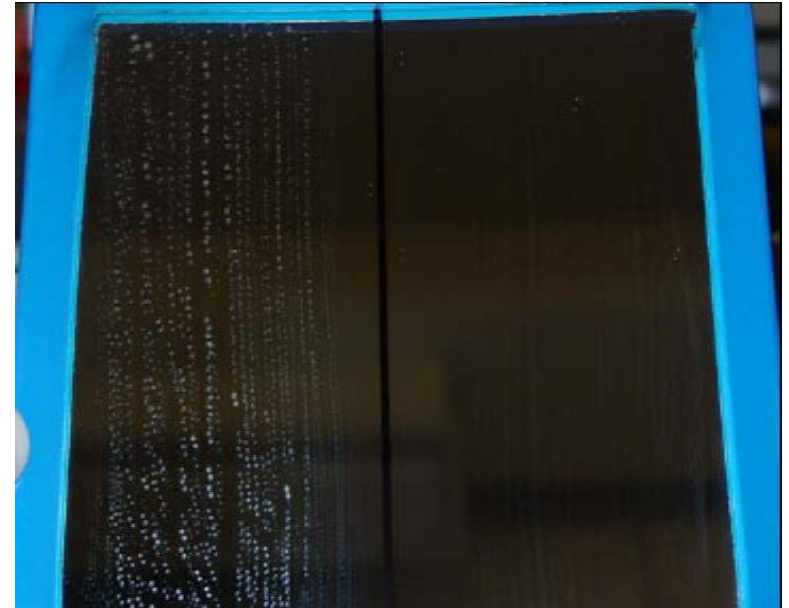
## Preservative

- **TEQGUARD IND** CIT/MIT

## Anti-fog test in glass cleaner



## Strip observation test in glass cleaner



Trade product A

Trade product A and 0.1%  
**TEQFEEL DET 335 V2**

# TEQSOLV NS 400

INCI: Levulinate Glycerol Ketal



## Product features

- Stable between pH 5.0-8.25
- Biodegradable
- Non- VOC
- Registered in REACH, EPA TSCA and other chemical lists
- GRAS approved, suitable for food contact

Physical properties	
Boiling Point (°C)	286
Melting Point (°C)	<-60
Flashpoint (°C)	>93.3
Specific Gravity (TCC 25°C)	1.13
Log P	0.37
Vapour Pressure (kPa) at 20°C	0.00019
Viscosity (cP at 25°C)	37.4
Water solubility (g/L 20°C)	Miscible
Surface Tension (dyne/cm 22°C)	37.05

Stable for levulinic acid



# AUTO LAUNDRY DETERGENT

## Surfactant

- **TEQNON 6/24** (C12-14 Alcohols Ethoxylate ) ((%4-8)
  - Very good oil removal property

## Dispersing Agent

- **TEQPOLYMER 568** (Homopolymer of acrylic acid) (% 1-2)
  - It prevents the accumulation of salts such as calcium and magnesium on the textile. It prevents graying
- **TEQPOLYMER 520 N** (Homopolymer of acrylic acid) (% 1-2)
  - It is effective against water hardness. It prevents the dirt from sticking to the textile again. It prevents graying
- **TEQPOLYMER 683** (Carboxylated Polyelectrolyte Copolymer) (%1-4)
  - Anti-stain, suspending organic and inorganic salts

## Rheology Agent

- **TEQPOLYMER 953** (Acrylic/Acrylate Ester Copolymer) (%1-5)
  - HASE rheology modifier and stabilizer can be used to achieve unusually high aqueous thickening and stabilizing efficiency in a variety of detergents and cleaners.

## Performance Products

- **TEQFEEL DET 47** (Quaternary Aminosiloxane) (%1-2)
  - It increases the strength of the textile against washing, provides a silky feeling and gives softness.
- **TEQFEEL DET 335 V2** (Modified Polydimethylsiloxane ) (%0,02-0,05)
  - Contributes to the deep cleaning of the stain, even in the hardest stains
- **ENZYMES** (%0,5-2)
  - They play a superior role in removing difficult stains such as protein, starch and sauce stains
- **OPTICAL BRIGHTENERS** (%0,1-0,5)
  - It protects the color of white clothes, making them look whiter and brighter

## Preservative

- **TEQGUARD IND** CIT/MIT



# LAUNDRY SOFTENER

## Cationic Surfactants

- **TEQSOFTENER GA 90** (Dipalmitoyl ethyl hydroxyethylmonium methosulfate)(%5-10)
- Plant based esterquat
- **TEQSOFTENER VL 90** (Dialkyl ammonium metha sulphate (esterquat) (%4-7)
- Tallow based esterquat

## Thickener

- **TEQPOLYMER 903** ( PEG copolymer ) (% 1-3)
- Thickener compatible with cationic media
- **TEQPOLYMER VELVET** (Sodium polyacrylate emulsion ) (%0,8-1)
- Thickener compatible with nonionic media

## Performance Products

- **TEQFEEL DET 47** (Quaternary Aminosiloxane) (%1-2)
- Silicone Softener, Nonionic
- Provides excellent softness and good hydrophilicity
- Provides fast drying of the laundry
- It gives a silky feel to the textile
- Increases water absorption
- Provides easy ironing
- Effective against wrinkles on the laundry
- Increasing the permanence of softness and essence

## Preservative

- **TEQGUARD IND** CIT/MIT

# AUTO DISHWASHING DETERGENT

## Dispersing Agent

- **TEQPOLYMER 568** (Polyacrylic acide homopolymer( % 1-8)
  - It prevents re-deposit by suspending the dirt in laundry and dishwashing detergent.
  - Lime inhibitor
- **TEQPOLYMER 583** (Carboxylated Polyelectrolyte Copolymer) (%1-4) Keeps organic and inorganic salts in suspension, prevents white stains on glasses and metal things

## Performance Products

- **TEQFEEL DET 335 V2** (Modified Polydimethylsiloxane) (%0,02-0,05)
  - Contributes to the deep cleaning of the stain, even in the toughest stains.
  - Provide fast drying
- **ENZYMS** (%0,5-2)
  - They play a superior role in removing difficult stains such as protein, starch and sauce stains

## Preservative

- **TEQGUARD IND** CIT/MIT

# AUTO DISHWASHIND RINS AID

## Nonionic Surface Active

- **TEQNON OP 1** (Branched and linear, ethoxylated, propoxylated)(% 5-10)
  - Reduces the surface tension and allows the water droplets accumulated on the dishes to slide
  - It prevents the formation of water cause stains

## Performance Products

- **TEQFEEL DET 335 V2** (Modified Polydimethylsiloxane)
  - Minimizes the surface tension by playing a more effective role
  - Provides fast drying

## Preservative

- **TEQGUARD IND** CIT/MIT

# HAND DISHWASHING DETERGENT

## Surface Active

- **TEQAMINE CPO** (Cocoamidopropylamine Oxide)
  - Amphoteric surfactant
  - Compatible with anionic, cationic and nonionic surfactants
  - Compatible in alkaline and acidic media
  - Viscosity enhancer, provides foam and stable foam formation
  - No irritation thanks to its amphoteric structure
  - High resistance to hard water
  - Working pH range 6.5-7.5
- **TEQROSYL 30 (Sodium lauryl sarcosinate)**
  - Teqrosyl mild, soap- detergent with excellent wetting and foaming properties.
  - It provides good detergency and good rinsing properties.
  - It is compatible with anionic, cationic and nonionic surfactants.

## Thickener

- **TEQPON ML4**(cocamide mpa (and) laureth-4)
  - Reduces irritation of anionic surfactants
  - Can be used in cold process formulations
  - Thickening agent compliant with DEA & MEA Free claim
  - Provides creamy foam increasing effect

## Preservative

- **TEQGUARD IND CIT/MIT**

\*\*\*COUNTERTYPE LIST

❖ TEQ HPMC  
METHOCEL 40-101

❖ TEQAMINE CPO  
AMMONYX® CDO SPECIAL  
EMPIGEN® OS / A

❖ TEQAMINE LO-E  
AMMONYX® LO SPECIAL  
DEHYTON® PL

❖ TEQPON ML 4  
EUR-AMID N2

❖ TEQAMID DEA  
COMPERLAN® KD  
CDE-C90 – Cocodea  
EMPILAN 2502

❖ TEQROSYL 30  
TEXAPON® LS 30  
MAPROSYL® 30-B  
Protelan LS 9011/C

❖ TEQFEEL DET 335 V2  
SILWET HYDROSTABLE 212  
POLYQUART® 149((functional offset)

❖ TEQPON AW  
DEMELAN® VPC

❖ TEQNON APL 101  
CAPRILY/CAPRYL GLUCOSIDE)  
PLANTACARE® 810 UP  
GLUCOPON® 225 DK

❖ TEQPON 9966  
BIOSOFT 9966  
TEXAL® VP

❖ TEQWHITE 428  
OPULYN 305  
EUPERLAN® PCO(functional offset)

❖ TEQPOLYMER 903  
RHEOVIS® FRC(functional offset)  
ACUSOL 880

❖ TEQLAM RFT  
BEROL 226 ((functional offset)

❖ TEQ 111-8  
LUTENSOL® AO 8

❖ TEQPOLYMER 424  
OPULYN 301  
EUPERLAN® PCO(functional offset)

❖ TEQGUARD IND (CIT/MIT )  
NIPACIDE CI  
KATHON ICP II

❖ TEQNON 6/24  
DEHYDOL® LT 6

❖ TEQPOLYMER 683  
ACUSOL 460 NK

❖ TEQFEEL DET 47  
MAGNASOFT DERMA NT

❖ TEQNON OP1  
DEHYPON LLS54  
PLURAFAC LF 221

❖ TEQPOLYMER 568 N  
ACUSOL 445 N

❖ TEQSOFTENER VL 90  
DEHYQUART AU 46S  
STEPANTEX® VL 90 A

❖ TEQPOLYMER 953  
ACUSOL 820

❖ TEQSOFTENER GA 90  
DEHYQUART AU 56G  
STEPANQUAT® GA 90

# THANK YOU

