MONSANTO INDUSTRIAL CHEMICALS COMPANY

TECHNOLOGY PLANNING AND EVALUATION

CLASSIFICATION OF TECHNICAL EFFORT

PRODUCT GROUPING VS. PRODUCTS

DETERGENTS AND PHOSPHATES

1972

1. Builders

   1.1 Phosphate Builders

      1.1.1 STP (sodium tripolyphosphate)
      1.1.2 Other
            IP-61 (sodium trimetaphosphate)
            TKPP (tetrapotassium pyrophosphate)
            TKPP/TSPP Solution (aqueous solutions of sodium and potassium pyrophosphate mixtures)

   1.2 NTA (nitrilotriacetic acid, sodium salt)

   1.21 New Builders

2. Other Detergent Phosphates

   2.1 MSP (monosodium phosphate, anhy.)

   2.2 DSP (disodium phosphate, anhy.)

   2.3 TSP (trisodium phosphate, anhy.)

   2.4 TSP Crystal (trisodium phosphate, dodecahydrate)

   2.5 MKP (monopotassium phosphate)

   2.6 TKP (tripotassium phosphate)

   2.7 Oilfos (glassy sodium polyphosphate)

   2.8 Sodium Metaphosphate (glassy sodium polyphosphate)

   2.9 SQ Phosphate (glassy sodium polyphosphate)

   2.10 TSPP (tetrasodium pyrophosphate)

   2.11 SAPP-X (sodium acid pyrophosphate, tech.)

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3. Surfactants

3.1 Alkylates

Alkylates (225, 222, 21S, 230, 215, 220)
Alkylbenzene Strip Oil
DDB SAB
ME Slurry
Santomerse E
Santomerse LS-B
Santomerse SX

3.2 Non-ionics

Dinonyl Phenol Foots
Dodecyl Phenol
Nonyl Phenol
Sterox AJ
Sterox AWS
Sterox CD
Sterox DF
Sterox DJ
Sterox MXP
Sterox ND
Sterox NG
Sterox NJ
Sterox NK
Sterox NM
Sterox RBS
Sterox SN

3.3 Fatty Acids

3.21 New Surfactants

4. Oral Products

4.1 Dental Phosphates

Calcium Pyrophosphate
DCP (Anhyd., Dihydrate)
Insoluble Sodium Meta Phosphate
Lustre Phos (M, E, MB)

4.2 Dental Silicas

4.21 New Oral Products

5. Bacteriostats

Santophen I
Sepanox
TCC

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6. Industrial Phosphates

Diammonium Phosphate
Monoammonium Phosphate
Phos Acid
Phospholeum
Phosphorus Pentoxide
Spent Phos Acid

7. Feed and Fertilizer Phosphates

Suplifos
Phos Acid

20. Other (Present Products)

Phosphorus Manufacturing

1. Phosphorus

Yellow Phosphorus

2. Phosphorus By-Products

Coke Fines
Collector Dust
Ferro Phos
Slag

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