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#### Objective

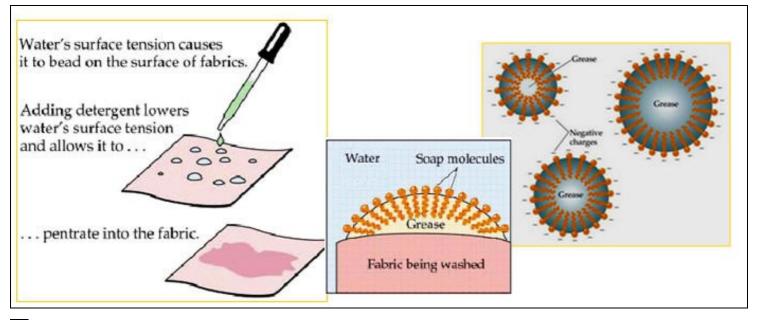
- In-depth understanding of Laundry detergents:
  - Landscape today?s existing technologies,
  - Predicting the future landscape/trends,
  - Current global scaling strategies and
  - Product to patent mapping

### Introduction to Laundry Detergent

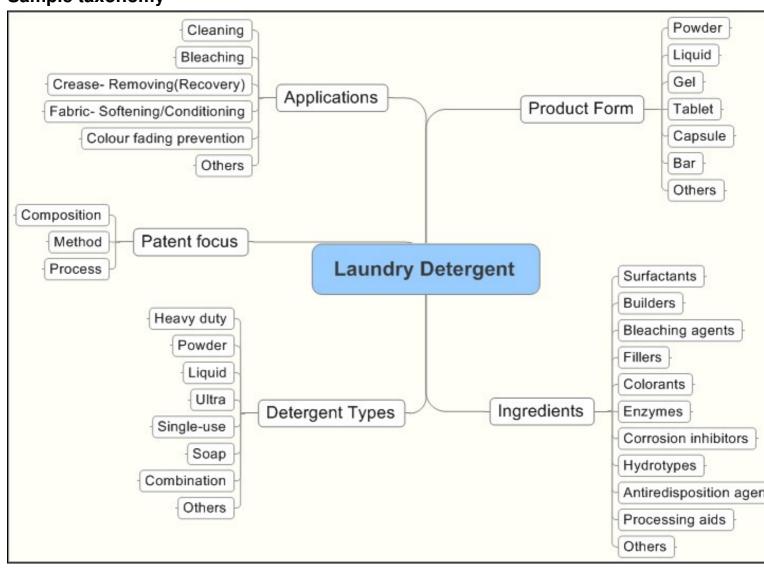
- Laundry detergent means any substance intended for use in laundry washing, based on surfactants and builders, formulated or manufactured to enhance the cleansing action of water. The term includes soaps, bleach as well as powder and liquid synthetic laundry detergents Laundry detergents
- A Laundry detergent composition is a formulated mixture of raw materials that can be classified into different types based on their properties and function in the final product. The different classes of raw materials are surfactants, builders, bleaching agents, enzymes, and minors which remove dirt, stain, and soil from surfaces or textiles gave them pleasant feel and odour.
- Laundry detergent has traditionally been a powdered or granular solid, but the use of liquid laundry detergents has gradually increased over the years, and these days use of liquid detergent equals or even exceeds use of solid detergent.
- Nowadays laundry detergents are becoming increasingly popular as they can be metered automatically into the washing machine, impart softness, antistaticness, resiliency to fabrics, mild to eyes and skins and shows good dispersibility in water. Because it is consumed when it is used, the sale of laundry detergent is a rather large business. There are many different kinds or brands of laundry detergent sold, many of them claiming some special qualities as selling points. Laundry detergents: an overview

The following picture demonstrates different laundry detergent mechanisms.

- Soap decreases surface tension of water, making it a better wetting agent.
  Soap converts greasy and oily dirt into micelles that become dispersed in water.
- Soap keeps the greasy micelles in suspension and prevents them from redepositing until they can be washed away. (repulsion of the charges)



# Detergent Mechanism Sample taxonomy



### **Concept table**

S.No.	Concept 1	Concept 2
1	Detergent	Laundry
2	Surfactant	Cloth
3	Syndet (Synthetic detergent)	Fabric
4	Detersive	Dress
5	Dispersant	Attire
6	Abstergent	Raiment
7	Surface active agent	Costume
8	Soap	Garment
9	Washing agent	Textile
10	Cleansing agent	Apparel
11		Garb

### **Classes and definitions**

	IPC/ECLA CLASS							
Animal And Vegetable Oils, Fats, Fatty Substances And Waxes; Fatty Acids Therefrom; Detergents; Candles								
		Detergent Compositions						
			Detergent compositions based essentially on surface-active compounds; Use of these compounds as a deterge				e compounds; Use of these compounds as a detergent	
		C11D1	C11D1/28	Sulfates of polyoxyalkylene ethers				
C11	C11D	01101	C11D1/29	C11D1/29 Sulfonation products derived from fatty acids or their derivatives, e.g. esters				
			C11D1/72			Ethers of po	olyoxyalkylene glycols	
				C11D1/72B			End blocked ethers	
			C11D1/722	Ethers of po polyalkoxyla	olyoxyalkylene gl ted alkylaryl alco	ycols having mixed hols with mixed ox	oxyalkylene groups; [N: Polyalkoxylated fatty alcohols or yalkylele groups (C11D1/72B takes precedence)] [C0810]	
				Othe	r compounding i	ngredients of deter	gent compositions covered in group	
		C11D3		Containing oxygen				
			C11D3/20	C11D3/20B	Alcohols; Phenols		Alcohols; Phenols	
				GT1D3/20D	C11D3/20B1		Monohydric alcohols	
						C11D3/20B1B2	Fatty or with at least 8 carbon atoms in the alkyl chain	
	C11C	Fatty Acids From Fats, Oils Or Waxes; Candles; Fats, Oils Or Fatty Acids By Chemical Modification Of Fats, Oils, Or Fatty Acids Dobtained Therefrom						
		C11C3		Fats, oils, or fatty acids by chemical modification of fats, oils, or fatty acids obtained therefrom				
		Biochem	Biochemistry; Beer; Spirits; Wine; Vinegar; Microbiology; Enzymology; Mutation Or Genetic Engineering Brewing Of Beer					
C12		Ferment	nentation Or Enzyme-Using Processes To Synthesize A Desired Chemical Compound Or Composition Or To Separate Opti Isomers From A Racemic Mixture				emical Compound Or Composition Or To Separate Optical ic Mixture	
	C12P	2P C12P7	Preparation of oxygen-containing organic compounds					
			C12P7/62	C12P7/62 Carboxylic acid esters			xylic acid esters	
			C12P7/64	C12P7/64 Fats; Fatty oils; Ester-type waxes; Higher fatty acids, i.e. having at least seven carbon atoms in an unbroken chain bound to a carboxyl group; Oxidised oils or fats [N: (Phosphoglycerides having fatty acids with at least 7 carbon atoms, phosphoglycerides having less than 7 carbon atoms C12P7/62)] [C0710]				

#### Search strategy

Search restricted to Assignee - Unilever : ("UNILEVER" OR "CONOPCO" OR "CHESEBRO" OR "LEVER" OR "LIPTON" OR unilever\* OR connopco\* OR conpco OR ilever) and Priority Date (earliest) >=19900101 and Country :GB patents (United Kingdom) only

S.No.	Search comment	Patent scope	Search strategy	Patent hits
1	Class codes of particular surface active agents related to detergents	Class codes	C11D000172 or C11000D172B or C11D0001722 or C11D000320B1B2 or C11D000129 or C11D000128	20 hits
2	Related class codes of surfacte active agents other than detergents with key words of detergent and clothes	Related Class codes with key words of detergent and clothes	C11C0003 or C12P000764 OR C12P000762 (Clean*4 or soap*1 or surfactant*1 or (surface adj3 active) or detersive*1 or detergent*1 or Dispersant*1 or abstergent*2 or wash*3 or syndet*1) and (cloth*3 or fabric*2 or laundr*2 or attire or raiment*1 or costume*1 or Garb*1 or garment*1 or dress*3 or apparel*1 or textile*1)	11 hits
3		-	2 NOT 1	9 hits
4	Combined query		1 OR 2	29 hits
5	Complete keywords with broad class	Full patent spec	Any Classification C11D* (Clean*4 or soap*1 or surfactant*1 or (surface adj3 active) or detersive*1 or detergent*1 or Dispersant*1 or abstergent*2 or wash*3 or syndet*1) and (cloth*3 or fabric*2 or laundr*2 or attire or raiment*1 or costume*1 or Garb*1 or garment*1 or dress*3 or apparel*1 or textile*1)	81 hits
6		_	5 NOT 4	63 hits
7	Combined query		4 OR 5	92 hits
8	Key words of detergent	Claims, Title or Abstract	(Clean*4 or soap*1 or surfactant*1 or (surface adj3 active) or detersive*1 or detergent*1 or Dispersant*1 or abstergent*2 or wash*3 or textile*1)	126 hits
9	Key words of laundry	Full patent spec	(cloth*3 or fabric*2 or laundr*2 or attire or raiment*1 or costume*1 or Garb*1 or garment*1 or dress*3 or apparel*1 or textile*1)	110 hits
10	Combined query		8 AND 9	93 hits
11	Key words of detergent	Full patent spec	(Clean*4 or soap*1 or surfactant*1 or (surface adj3 active) or detersive*1 or detergent*1 or Dispersant*1 or abstergent*2 or wash*3 or textile*1)	184 hits
12	Key words of laundry	Claims, Title or Abstract	(cloth*3 or fabric*2 or laundr*2 or attire or raiment*1 or costume*1 or Garb*1 or garment*1 or dress*3 or apparel*1 or textile*1)	65 hits
13	Combined query		11 AND 12	65 hits
14	Combined query		10 OR 13	97 hits
15		-	14 NOT 7	15 hits
16	Final query		14 OR 7	107 (103 unique hits)

## **Products information**

S.No	Persil	
1	Persil Tablets Biological	
2	Persil Tablet Freshness of Comfort	
3	Persil Std Powder Freshness of Comfort	
4	Persil Small and Mighty The Original Non-Bio	
5	Persil Small and Mighty Liquid Freshness Of Comfort	
6	Persil Small and Mighty Colour	
7	Persil Small and Mighty Biological	
8	Persil Colour Care Biological Powder	Devail
9	Persil Gel Colour Tablets	Persi
10	Persil Gel Tablets Bio (UK)	
11	Persil Liquigel Biological	
12	Persil Liquigel The Original Non-Bio	
13	Persil Naturals Capsules Aloe Vera & White Flower	Persil

14		
	Persil Naturals Capsules Olive Blossom Fragrance with Camomile Extract	
15	Persil Naturals Liquid Aloe Vera & white Flower	
16	Persil Naturals Liquid Olive Blossom Fragrance with Camomile Extract	_
17	Persil Naturals Powder Aloe Vera & White Flower	
18	Persil Naturals Powder Olive Blossom & Camomile	_
19	Persil Non-Bio Tablets	_
20	Persil Powder Biological	_
21	Persil Powder Colour Care Biological	_
22	Persil Powder The Original Non-Bio	
23	Persil Small & Mighty Capsules 2in1 with Comfort Passion Flower	
24	Persil Small & Mighty Capsules 2in1 with Comfort Sunshiny Days	
25	Persil Small & Mighty Capsules Biological	
26	Persil Small & Mighty Capsules Colour	
27	Persil Small & Mighty Capsules Non-Bio	
28	Persil Small and Mighty Aloe Vera Non-Bio	
29	Persil Aloe-Vera Non-Bio Powder	
30	Persil (Liquid) Silk & Wool	
31	Persil 2in1 with Comfort Passion Flower	$\neg$
32	Persil 2in1 with Comfort Passion Flower Powders	-
33	Persil 2in1 with Comfort Sunshiny Days Liquids	
34	Persil 2in1 with Comfort Sunshiny Days Powder	
35	Persil Aloe Vera Non Biological Powder	-
36	Persil Aloe Vera Non-Bio Tablets	-
37	Persil Biological Powder	-
38	Persil Biological Tablets	-
S.No	Surf	
1		
1	Surf Capsules Tropical Oasis of Ylang Ylang & Lily	_
2	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder	
2 3	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang	
2 3 4	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden	
2 3 4 5	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets	
2 3 4	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder	Sur
2 3 4 5 6 7	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze	essential celos
2 3 4 5 6 7 8	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Liquid Breeze	essential celo
2 3 4 5 6 7 8 9	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot	Surf
2 3 4 5 6 7 8 9 10	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang	
2 3 4 5 6 7 8 9 10 11	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden	
2 3 4 5 6 7 8 9 10 11 11 12	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia	
2 3 4 5 6 7 8 9 10 11 11 12 13	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia Surf Small & Mighty Liquid Sunshine Orchard of Lemons & Mandarin Flower	
2 3 4 5 6 7 8 9 10 11 12 13 14	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia Surf Small & Mighty Liquid Sunshine Orchard of Lemons & Mandarin Flower Surf Small & Mighty Liquid Tropical Oasis of Ylang Ylang & Lily	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia Surf Small & Mighty Liquid Sunshine Orchard of Lemons & Mandarin Flower Surf Small & Mighty Liquid Tropical Oasis of Ylang Ylang & Lily Surf Small and Mighty SunShine	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia Surf Small & Mighty Liquid Sunshine Orchard of Lemons & Mandarin Flower Surf Small & Mighty Liquid Tropical Oasis of Ylang Ylang & Lily Surf Small and Mighty SunShine Surf Spring Biological Tablets	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia Surf Small & Mighty Liquid Sunshine Orchard of Lemons & Mandarin Flower Surf Small & Mighty Liquid Tropical Oasis of Ylang Ylang & Lily Surf Small and Mighty SunShine Surf Spring Biological Tablets	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Sunshine Lemons & Bergamot Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia Surf Small & Mighty Liquid Sunshine Orchard of Lemons & Mandarin Flower Surf Small & Mighty Liquid Tropical Oasis of Ylang Ylang & Lily Surf Small and Mighty SunShine Surf Spring Biological Tablets Surf Spring Biological Tablets	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Surf Capsules Tropical Oasis of Ylang Ylang & Lily Surf Breeze Biological Washing Powder Surf Capsu;es Tropical Ylang Ylang Surf Capsules Lavender & Jasmine Secret Garden Surf Cool Fresh Biological Tablets Surf Lavender & Jasmine Secret Garden Powder Surf Liquid Breeze Surf Powder Lavender and Oriental Blossom Surf Powder Sunshine Lemons & Bergamot Surf Powder Tropical ylang Ylang Surf Small & Mighty Liquid Lavender & Jasmine Secret Garden Surf Small & Mighty Liquid Mystic Waterfalls of Lotus Flowers & Wild Freesia Surf Small & Mighty Liquid Sunshine Orchard of Lemons & Mandarin Flower Surf Small & Mighty Liquid Tropical Oasis of Ylang Ylang & Lily Surf Small and Mighty SunShine Surf Spring Biological Tablets	

21	Surf Tropical Tablets
22	Surf Twilight Sensations Powder Jasmine & Black Gardenia
23	Surf Twilight Sensations Powder Vanilla & Black Orchid
24	Surf Twilight Sensations Small & Mighty Jasmine & Black Gardenia
25	Surf Twilight Sensations Small & Mighty Vanilla & Black Orchid

# Product to Patent Mapping- Unilever (U.K.) - A Case Study

#### Objective

To understand Laundary strategy and IP protection of Unilever, and their correlation with products as well as market strategy by patent-product mapping in United Kingdom.

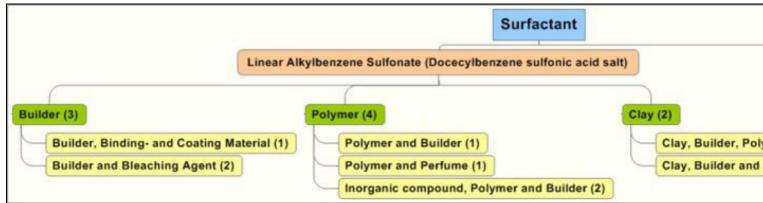
#### **Analysis and Mapping Summary**

Total No. of Products	Total No. of Patents	Patents mapped	Products mapped	Unmapped products	Unmapped patents
63	58	11	54	9	47

#### Mapped Surfactants Summary

Surfactants	No. of patents mapped	No. of products mapped
Linear Alkylbenzene Sulfonate (Docecylbenzene sulfonic acid salt)	9	51
C12-15 Pareth-5	2	3

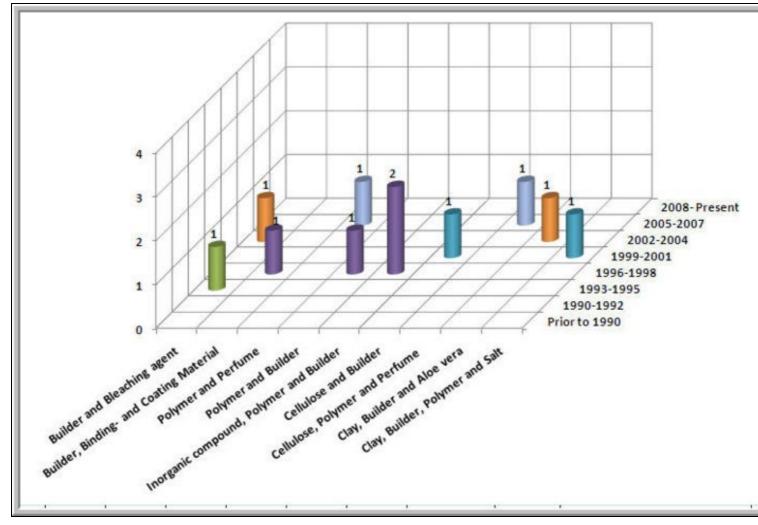
#### Mapped Formulation Clustering - Summary



#### **Mapped Formulation Clusters**

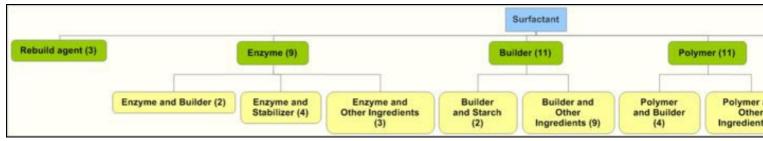
S.No	Ingredient	First priority date	No.of patents			
Linear Alkylbenzene Sulfonate (Docecylbenzene sulfonic acid salt)						
1	Builder	11/11/1993	3			
2	Polymer	10/22/1996	4			
3	Clay	12/22/1999	2			
C12-15 Pareth-5						
1	Cellulose	12/15/1999	2			

#### Year-Wise Patenting Activity for Mapped Formulation Clusters



#### 

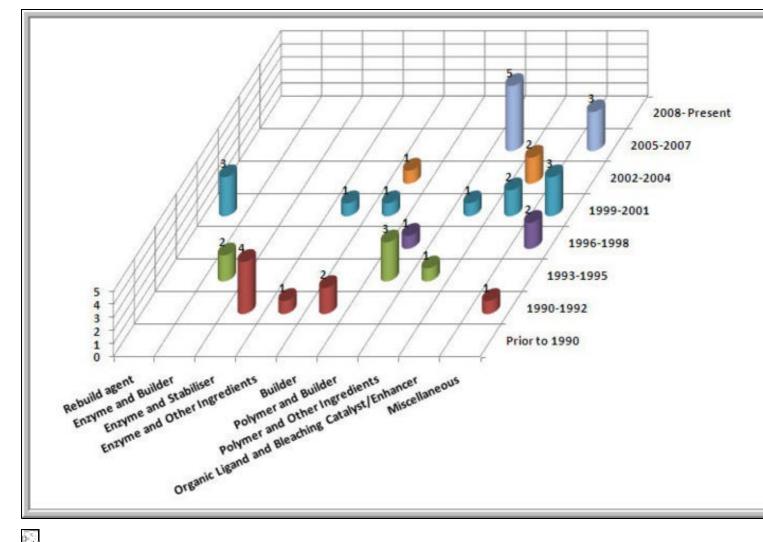
#### **Unmapped Formulation Clustering - Summary**



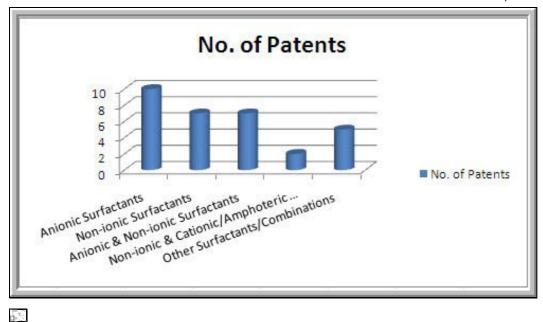
#### **Unmapped Formulation Clusters**

S.No	Ingredient	First priority date	No.of patents				
	Surfactant						
1	Rebuild agent	3/29/2000	3				
2	Enzyme	06/07/1990	9				
3	Builders	04/16/1992	11				
4	Polymers	9/4/1995	11				
5	Organic Ligand and Bleaching Catalyst/Enhancer	9/11/2000	4				
6	Miscellaneous	8/28/1991	9				

Year-wise Patenting Activity for Unmapped Formulation Clusters

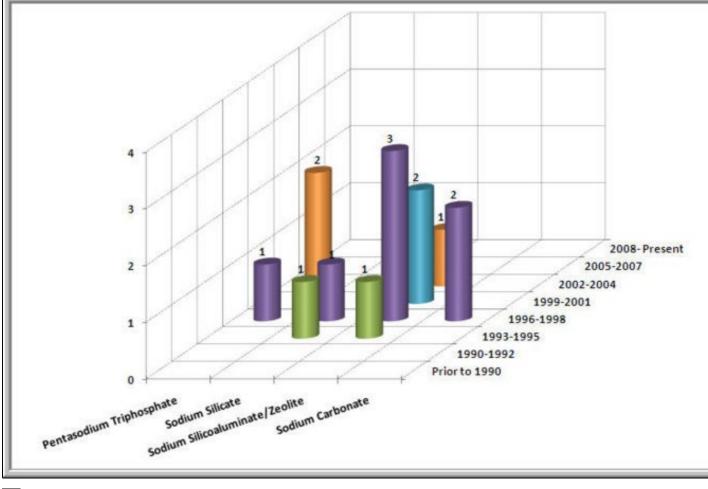


# Claimed Surfactants

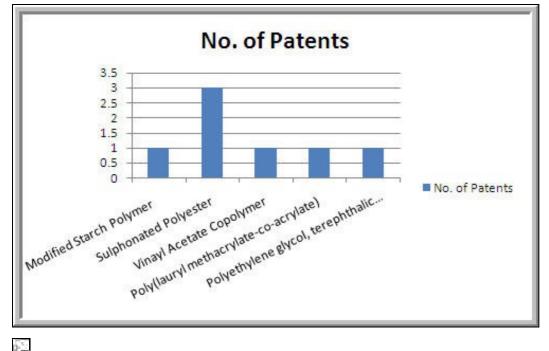


Anionic surfactants and their combinations with non-ionic surfactants are the most claimed surfactants in patents.

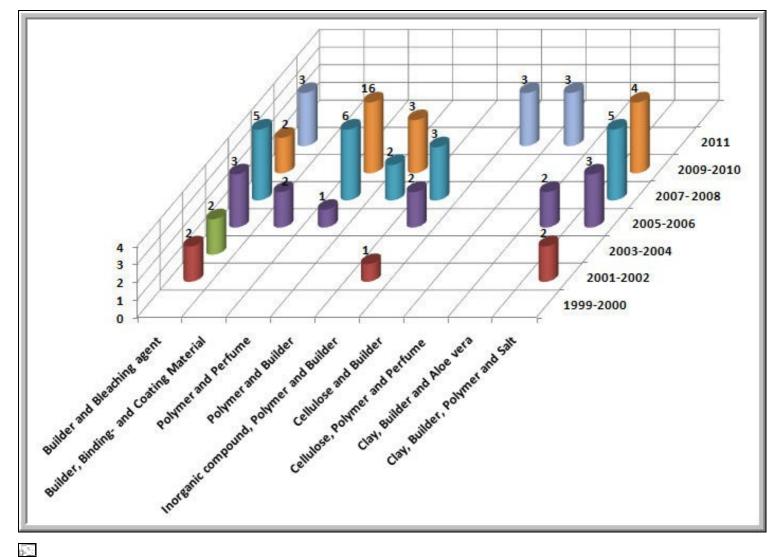
# Builders Used in Mapped Patents



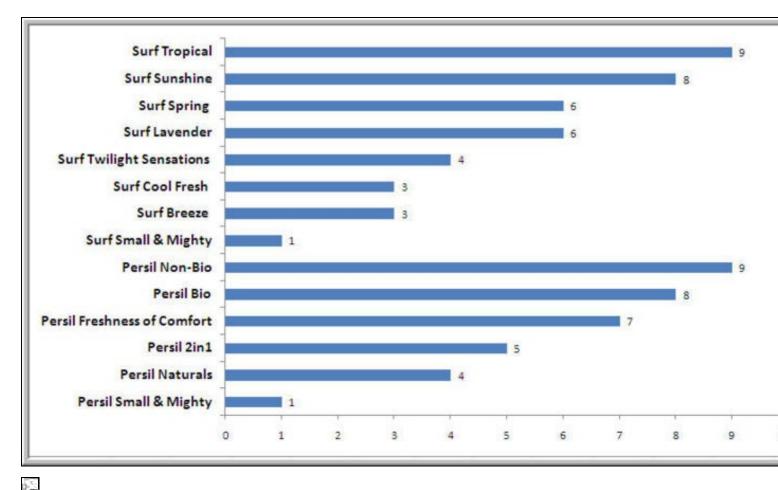
Soil-Releasing Polymers Used in Mapped and Unmapped Patents



**Product Launch Timeline for Mapped Products** 



Most IP Protected Brands for Unilever (U.K.)



# Final Spread Sheet with Complete analysis

Click here for Unilever Final analysis Spread sheet

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