## Soaps and Detergents

1 P												<sup>2</sup> C					
<sup>3</sup> Н	Y	D	R	О	P	<sup>4</sup> Н	I	L	I	C		A					
О						Y						L					
<sup>5</sup> S	О	A	6 P			D						С					
P			7 H	Y	D	R	О	P	8 H	О	В	I	С		9 H		
Н			О			О			Y			U			Y		
A			S			P			D			M			D		
T			P			Н			R				10 H	Α	R	D	
Е			Н			I		11 S	О	A	P				О		
			Α			L			X						X		
12 S	О	F	T			I			I						I		
			Е			С			D		13 C		14 O		D		
								15 N	Е	G	A	Т	I	V	Е		
											L		L				
	16 H	Y	D	R	О	P	Н	О	В	I	С						
	A										I						
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	17 D	Е	Т	Е	R	G	Е	N	Т		M						

## **Across**

- 3. "Water-loving" and oil-repelling.[11]
- 5. Cleaning product made from vegetable oil and other chemicals.[4]
- 7. "Water-hating" and oil-attracting.[11]
- 10. Type of water that does not produce much lather.[4]
- 11. Personal cleaning product invented 200 years ago.[4]
- 12. Type of water that forms a lot of lather.[4]
- 15. Opposite of "positive".[8]
- 16. End of soap molecule that attracts dirt or grease but repels water.[11]
- 17. Household cleaning product.[9]

## Down

<ol> <li>Environmentally unfriendly chemical</li> </ol>	l in c	leaning
products[9]		

2. Ha	ard water	contains	magnesium	and
sa	lts [7]			

- 4. Negative end of a soap molecule that attracts a water molecule.[11]
- 6. Chemical that causes algal blooms in waterways.[9]

8.	Chemical	used	in	soap	making	is	sodium
	[9]						

9.	Chemical name for caustic soda is sodium
	[9]
_	and the second of the second of the second of

- 13. \_\_\_\_ salts react with soap to form a grey scum.[7]
- 14. Detergents are made from animal fat or vegetable \_\_\_\_.[3]
- 16. Type of water that is unsuitable for washing.[4]