

Components of Formulations Tested in Swanson et al. (1995)

Code	Formulation	Formulation Components	Percentage	pH
1	Toilet Bowl Cleaner	Water	90-95	8.8
		Nonionic Surfactant	1-5	
		Anionic Surfactant	1-5	
		Preservative	< 1	
		Thickener	< 1	
		Dye	< 1	
		Fragrance	< 1	
		Phosphate	< 1	
2	Floor Cleaner	Water	90-95	10.8
		Anionic Surfactant	1-5	
		Nonionic Surfactant	1-5	
		MEA	< 1	
		Fragrance	< 1	
		Dye	< 1	
3	Meat Room Degreaser	Water	80-85	12.65
		Anionic surfactant	1-5	
		Nonionic surfactant	1-5	
		Chelator	1-5	
		Glycol ether	1-5	
		Inorganic salt	1-5	
		KOH	< 1	
4	Toilet Bowl Cleaner	Water	90-95	2.5
		Organic acid	1-5	
		Anionic surfactant	1-5	
		Thickener	< 1	
		Dye	< 1	
		Fragrance	< 1	
5	All Purpose Cleaner	Water	90-95	13
		Nonionic surfactant	1-5	
		Inorganic salt	1-5	
		NaOH	1-5	
		Chelator	< 1	
		KOH	< 1	
		Anionic surfactant	< 1	
		Fragrance	< 1	
		Dye	< 1	
6	Bathroom Cleaner	Water	80-85	13
		Chelator	10-15	
		Glycol ether	1-5	
		Nonionic surfactant	1-5	
		Quaternary compound	< 1	

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7	All Purpose Cleaner	Water	80-85	14
		Inorganic salt	5-10	
		NaOH	1-5	
		Nonionic surfactant	1-5	
		Anionic surfactant	1-5	
		KOH	< 1	
		Chelator	< 1	
		Amphoteric surfactant	< 1	
		Fragrance	< 1	
		Dye	< 1	
8	Pot and pan cleaner	Water	60-65	7.8
		Anionic surfactant	25-30	
		Nonionic surfactant	5-10	
		Glycol ether	1-5	
		Preservative	< 1	
		Dye	< 1	
9	Heavy-duty cleaner/degreaser	Water	75-80	13.6
		Inorganic salts	10-15	
		Chelator	1-5	
		NaOH	1-5	
		Nonionic surfactant	1-5	
		Amphoteric surfactant	1-5	
		Dye	< 1	
10	Floor cleaner	Water	85-90	11.7
		MEA	1-5	
		Anionic surfactant	1-5	
		Glycol ether	1-5	
		Ammonium hydroxide	1-5	
		Nonionic surfactant	< 1	
		Chelator	< 1	
		Fragrance	< 1	
		Dye	< 1	
		11	General Cleaner	
Inorganic acid	15-20			
Nonionic surfactant	1-5			
Amphoteric surfactant	< 1			
Fragrance	< 1			
Dye	< 1			

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12	General Cleaner	Water	75-80	14
		Anionic surfactant	10-15	
		Nonionic surfactant	5-10	
		Chelator	1-5	
		Inorganic salt	1-5	
13	Cleaner/Degreaser	Water	65-70	12
		Glycol ether	10-15	
		Anionic surfactant	1-5	
		Inorganic salt	1-5	
		Chelator	1-5	
		Nonionic surfactant	5-10	
		NaOH	1-5	
Dye	< 1			
14	Floor stripper	Water	50-55	11.5
		Glycol ether	30-35	
		MEA	10-15	
		Organic solvent	1-5	
		Ammonium hydroxide	1-5	
		Anionic surfactant	1-5	
15	Heavy Duty cleaner	Water	65-70	13.5
		Inorganic salts	10-15	
		Anionic surfactant	5-10	
		Chelator	1-5	
		NaOH	1-5	
		Nonionic surfactant	1-5	
		Amphoteric surfactant	1-5	
16	Degreaser	Water	65-70	12.9
		Anionic surfactant	5-10	
		Chelator	5-10	
		Nonionic surfactant	5-10	
		KOH	1-5	
		Inorganic salt	1-5	
		Glycol ether	1-5	

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17	Floor stripper	Water	60-65	13.1
		Glycol ether	10-15	
		Anionic surfactant	10-15	
		MEA	5-10	
		Organic solvent	1-5	
		Inorganic salt	1-5	
		NaOH	1-5	
		Chelator	< 1	
		Flurochemical	< 1	
		Fragrance	< 1	
18	Floor stripper	Water	55-60	14
		Glycol ether	10-15	
		Inorganic salt	5-10	
		Amphoteric surfactant	5-10	
		MEA	1-5	
		NaOH	1-5	
		Chelator	1-5	
		Nonionic surfactants	< 1	
		Fragrance	< 1	
19	Glass cleaner	Water	65-70	12.1
		Glycol ether	20-25	
		Ammonium hydroxide	1-5	
		Anionic surfactant	1-5	
		Chelator	1-5	
		Dye	< 1	
20	Metal cleaner	Water	65-70	14
		Chelator	5-10	
		NaOH	5-10	
		Nonionic surfactant	5-10	
		KOH	< 1	