

## **Appendix B**

### **Chemical and Product Class Information for the Substances Tested in the IRE Test Method**

<b>B1</b>	<b>Chemical and Product Class Information for the Substances Tested in the IRE Test Method.....</b>	<b>B-3</b>
<b>B2</b>	<b>Table of Formulation Components in Gettings et al. (1996).....</b>	<b>B-11</b>

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## **Appendix B1**

### **Chemical and Product Class Information for the Substances Tested in the IRE Test Method**

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**Table of Chemical and Product Class Information**

<b>Substance</b>	<b>CASRN</b>	<b>Chemical Class</b>	<b>Product Class</b>
Acetaldehyde	75-07-0	ORGANIC	Flammable liquid used in manufacture of acetic acid, perfumes, and flavors
Acetic acid	64-19-7	CARBOXYLIC ACID	Food preservative and acidifier, Solvent, Manuf of acetates, acetyl compounds, cellulose acetate, rayon, plastics and rubber in tanning
Acetone	67-64-1	KETONE	Solvent; Antiseptic; Chemical intermediate; Raw material
Acetone (F33)	67-64-1	KETONE	Solvent; Antiseptic; Chemical intermediate; Raw material
2-(Acetoxy)-1-phenylethanone (F27)	-	KETONE, ESTER	Raw material
Allyl alcohol (F34)	107-18-6	ALCOHOL	Resins, Plasticizers, War gas, Allyl compounds
gamma-(Aminocarbonyl)-N-methyl-N,N-bis(1-methylethyl)-gamma-phenyl-, iodide (F14)	-	ONIUM, AMIDE	Active pharmaceutical ingredient
1-(5-Amino-2-methoxyphenyl) piperazine hydrochloride (F20)	-	HETEROCYCLE, AMINE	Chemical intermediate
tetra-Aminopyrimidine sulfate	5392-28-9	AMINE, HETEROCYCLE, SALT, INORGANIC	Developer
Ammonium nitrate	6484-52-2	SALT, INORGANIC, ONIUM	Fertilizer; Chemical intermediate; Industrial explosive
Ammonium nitrate (F36)	6484-52-2	SALT, INORGANIC, ONIUM	Fertilizer; Chemical intermediate; Industrial explosive
L-Aspartic acid	70-47-3	AMINO ACID	Organic intermediate; Fungicides; Germicides
Benzalkonium chloride	8001-54-5	INORGANIC SALT, ONIUM	Surfactant (cationic), Bactericide, Fungicide, Preservative
Benzalkonium chloride (1 %)	8001-54-5	ONIUM	Surfactant (cationic), Bactericide, Fungicide, Preservative
Benzalkonium chloride (10%)	8001-54-5	ONIUM	Surfactant (cationic), Bactericide, Fungicide, Preservative
Benzalkonium chloride (5%)	8001-54-5	ONIUM	Surfactant (cationic), Bactericide, Fungicide, Preservative
3-((Benzylthio)methyl)-6-chloro-,1,1-dioxide (F29)	-	ETHER, SULFUR COMPOUND, ORGANIC	Active pharmaceutical ingredient
Brij 35	9002-92-0	ALCOHOL	Detergent, Solubilizer, Emulsifier, Lubricant
Butanol	71-36-3	ALCOHOL	Solvent; Chemical intermediate; Flavor ingredient
iso-Butanol	78-83-1	ALCOHOL	Solvent; Chemical intermediate; Flavor ingredient
n-Butanol (F35)	71-36-3	ALCOHOL	Solvent; Chemical intermediate; Flavor ingredient

**Table of Chemical and Product Class Information**

Substance	CASRN	Chemical Class	Product Class
2-Butoxyethyl acetate	112-07-2	ESTER	Solvent, Textile dyeing and printing, Leather treatment, Production of plasticizers, Stabilizer
N-Butyl acetate	123-86-4	ESTER	Solvent; Synthetic flavor ingredient
n-Butyl acetate (F39)	123-86-4	ESTER	Solvent; Synthetic flavor ingredient
g-Butyrolactone	96-48-0	HETEROCYCLE, LACTONE	Synthetic intermediate; Solvent
Captan 90 concentrate	133-06-2	IMIDE, SULFUR COMPOUND, ORGANIC	Pesticide
4-Carboxybenzaldehyde	619-66-9	CARBOXYLIC ACID, ALDEHYDE	Manufacturing impurity (polyester); Developer intermediate
Cetylpyridium bromide (F37)	140-72-7	ONIUM, HETEROCYCLE	Surfactant (cationic), Germicide, Laboratory reagent
Cetylpyridinium bromide (0.1%)	140-72-7	ONIUM, HETEROCYCLE	Surfactant (cationic), Germicide, Laboratory reagent
Cetylpyridinium bromide (10%)	140-72-7	ONIUM, HETEROCYCLE	Surfactant (cationic), Germicide, Laboratory reagent
Cetylpyridinium bromide (6%)	140-72-7	ONIUM, HETEROCYCLE	Surfactant (cationic), Germicide, Laboratory reagent
5-Chloro-2,4-disulfamoyl chloroacetanilide (F22)	-	AMIDE	Raw material
Chloroform	67-66-3	HYDROCARBON, HALOGENATED COMPOUND, ORGANIC	Solvent
5-Chloro-3-methylbenzo[b]thiophene-2-sulfonyl chloride (F18)	-	SULFUR COMPOUND, ORGANIC	Raw material
5-Chloro-N-[4-methoxy-3-(1-piperazinyl)phenyl]-3-methylbenzo[B]thiophene-2-sulfonamide monohydrochloride (F4)	-	HETEROCYCLE, ETHER, AMIDE	Active pharmaceutical ingredient
Chlorhexidine	55-56-1	AMIDINE	Disinfectant; Mouthwash; Anti-infective agent
Cyclohexanol	108-93-0	ALCOHOL	Solvent; Chemical intermediate
Dibenzoyl-L-tartaric acid	2743-38-6	CARBOXYLIC ACID	Optical resolution agent
Dibenzyl phosphate	1623-08-1	ESTER, ORGANOPHOSPHOROUS COMPOUND	Not classified
Dibutyltin chloride	683-18-1	ORGANOTIN COMPOUND	Molluscicide, Slime control in paper mills, Wood preservative, disinfectant, Biocide in cooling systems, Leather and textile processing
3,4-Dichloroaniline hydrochloride (F11)	-	AMINE, ORGANIC SALT, CYCLIC HYDROCARBON	Chemical intermediate
2,6-Dichlorobenzenesulfonyl chloride (F1)	6579-54-0	ORGANIC SALT, CYCLIC HYDROCARBON, SULFUR COMPOUND	Raw material
2,6-Dichlorobenzoyl chloride	4659-45-4	ACYL HALIDE	Anti-infective; Anti-fungal; Preservative
2,6-Dichloro-5-fluoro-beta-oxo-3-pyridinepropanoate (F16)	96568-04-6	ESTER, KETONE, HETEROCYCLE	Chemical intermediate
1-(3,4-Dichlorophenyl)-5-isopropylbiguanide HCl (F6)	537-21-3	AMIDINE	Active pharmaceutical ingredient
3,4-Dimethoxybenzaldehyde (F19)	120-14-9	ALDEHYDE	Raw material
2,2-Dimethylbutanoic acid	595-37-9	CARBOXYLIC ACID	Pharmaceutical metabolite

**Table of Chemical and Product Class Information**

<b>Substance</b>	<b>CASRN</b>	<b>Chemical Class</b>	<b>Product Class</b>
Dimethyl carbonate (F30)	616-38-6	CARBOXYLIC ACID	Raw material
2,5-Dimethylhexanediol	110-03-2	ALCOHOL	Intermediate for pharmaceuticals, pesticides, perfumes
Dimethyl sulfoxide	67-68-5	SULFUR COMPOUND	Solvent, Antifreeze, Paint and varnish remover,
Ethanol	64-17-5	ALCOHOL	Solvent; Beverages; Antifreeze agent
Ethyl acetate	141-78-6	ESTER	Solvent; Synthetic flavoring
2-Ethyl-1-hexanol	104-76-7	ALCOHOL	Solvent; Plasticizer
Ethyl-2-methylacetoacetate	609-14-3	KETONE, ESTER	Not classified
Ethyl trimethyl acetate	3938-95-2	ESTER	Solvent
Fluorescein, sodium	518-47-8	POLYCYCLIC COMPOUND, CYCLIC HYDROCARBON	Phthalic indicator dye; used to detect corneal lesions in ophthalmology
p-Fluoraniline	371-40-4	AMINE	Intermediate for herbicides; Dyes
Fomesafen, acid form (solid)	72128-02-0	IMIDE, ETHER, NITRO COMPOUND	Pesticide
Glycerol	56-81-5	ALCOHOL	Solvent; Plasticizer; Lubricant; Emollient; Drug vehicle
Glycerol	56-81-5	ALCOHOL	Solvent; Plasticizer; Lubricant; Emollient; Drug vehicle
Glycerol (F41)	56-81-5	ALCOHOL	Solvent; Plasticizer; Lubricant; Emollient; Drug vehicle
n-Hexane	110-54-3	ACYCLIC HYDROCARBON	Solvent; Adhesive; Gasoline additive
n-Hexanol	111-27-3	ALCOHOL	Solvent; Chemical intermediate; Synthetic flavor ingredient
3-Hydroxy-2-phenyl-4-quinolinecarboxylic acid (F24)	485-89-2	HETEROCYCLE, CARBOXYLIC ACID, ALCOHOL	Chemical intermediate
HZA-1	-	FORMULATION	Shampoos, Hair care
HZB-1	-	FORMULATION	Soaps and surfactants
HZC-1	-	FORMULATION	Shampoos, Hair care
HZD-1	-	FORMULATION	Shampoos, Hair care
HZE-1	-	FORMULATION	Soaps and surfactants
HZF-1	-	FORMULATION	Shampoos, Hair care
HZG-1	-	FORMULATION	Shampoos, Hair care
HZH-1	-	FORMULATION	Soaps and surfactants, cosmetics
HZI-1	-	FORMULATION	Soaps and surfactants
HZJ-1	-	FORMULATION	Shampoos, Hair care
HZK-1	-	FORMULATION	Soaps and surfactants
HZL-1	-	FORMULATION	Soaps and surfactants
HZM-1	-	FORMULATION	Shampoos, Hair care
HZN-1	-	FORMULATION	Shampoos, Hair care
HZP-1	-	FORMULATION	Shampoos, Hair care
HZQ-1	-	FORMULATION	Soaps and surfactants
HZR-1	-	FORMULATION	Soaps and surfactants
HZS-1	-	FORMULATION	Soaps and surfactants
HZT-1	-	FORMULATION	Soaps and surfactants
HZU-1	-	FORMULATION	Soaps and surfactants
HZV-1	-	FORMULATION	Shampoos, Hair care
HZW-1	-	FORMULATION	Soaps and surfactants
HZX-1	-	FORMULATION	Shampoos, Hair care
HZY-1	-	FORMULATION	Shampoos, Hair care
HZZ-1	-	FORMULATION	Soaps and surfactants
Imidazole	288-32-4	HETEROCYCLE	Anti-fungal; Enzyme inhibitor
1H-Indole-2,3-dione (F28)	91-56-5	HETEROCYCLE	Raw material
Iodine chloride with pyridine (1:1) (F10)	6443-90-9	HETEROCYCLE	Raw material

**Table of Chemical and Product Class Information**

<b>Substance</b>	<b>CASRN</b>	<b>Chemical Class</b>	<b>Product Class</b>
di-Isopropyl aminoethylidiphenyl acetamide (F15)	-	AMINE, AMIDE	Raw material
Isopropyl dicyanamide (F9)	35695-36-4	AMINE, NITRILE	Chemical intermediate
Maneb	12427-38-2	AMINE, SALT, ORGANIC, UREA	Pesticide
Mebrophen hydramine HCl (F5)	13977-28-1	ETHER, AMINE, SALT	Active pharmaceutical ingredient
Mercuric chloride	7546-30-7	INORGANIC	Topical antiseptic/disinfectant; corrosive agent
2-Methoxyethanol	109-86-4	ALCOHOL	Solvent
1-(2-Methoxyphenyl)piperazine hydrogen sulfate (F2)	-	HETEROCYCLE, SULFUR COMPOUND, ORGANIC SALT	Raw material
Methyl acetate	79-20-9	ESTER	Solvent; Chemical intermediate; Synthetic flavor ingredient
6-(Methylamino)-2-pyridine ethanol formate (1:1) (salt) (F17)	-	HETEROCYCLE, AMINE, CARBOXYLIC ACID, SALT	Chemical intermediate
Methyl cyanoacetate	105-34-0	ESTER, NITRILE	Adhesive; Pharmaceutical intermediate
Methylcyclopentane	96-37-7	HYDROCARBONS, CYCLIC	Solvent
4,4'-Methylenebis-(2,6-di-tert-butylphenol) (F43)	118-82-3	SULFUR COMPOUND, ORGANIC	Raw material
Methyl ethyl ketone	78-93-3	KETONE	Solvent; Manufacture of lacquers, varnishes, cosmetics, pharmaceuticals
Methyl ethyl ketone (F38)	78-93-3	KETONE	Solvent; Manufacture of lacquers, varnishes, cosmetics, pharmaceuticals
Methyl isobutyl ketone	108-10-1	KETONE	Solvent; Synthetic flavor; Drycleaning
1-Naphthalene acetic acid	86-87-3	CARBOXYLIC ACID, POLYCYCLIC COMPOUND	Pesticide
1-Naphthalene acetic acid, Na salt	61-31-4	SALT, ORGANIC, POLYCYCLIC COMPOUND, CARBOXYLIC ACID, SALT	Pesticide
2-Nitro-4-propoxyaniline (F23)	-	NITRO COMPOUND, AMINE, ETHER	Chemical intermediate
2-Nitro-4-thiocyananiline (F7)	54029-45-7	NITRO COMPOUND, AMINE, SULFUR COMPOUND, ORGANIC	Chemical intermediate
2-Nitro-4-thio-N-propylaniline (F21)	54393-89-4	AMINE, NITRO COMPOUND, SULFUR COMPOUND, ORGANIC	Chemical intermediate
<i>n</i> -Octanol	111-87-5	ALCOHOL	Solvent; Fragrance
tetra-N-Octylammonium bromide (F8)	14866-33-2	ONIUM	Raw material
2-(4-Oxopentyl)-1H-isindole-1,3 (2H)-dione (F26)	3197-25-9	HETEROCYCLE	Chemical intermediate
(S)-1-Phenyl-N-propylamine (F13)	3789-59-1	AMINE, ORGANIC	Raw material
Polyethylene glycol 400	25322-68-3	ALCOHOL, ETHER	Surfactant (nonionic), Lubricant, Plasticizer, Solvent
Polyethylene glycol 400 (F44)	25322-68-3	ALCOHOL, ETHER	Surfactant (nonionic), Lubricant, Plasticizer, Solvent
Potassium cyanate	590-28-3	SALT, INORGANIC	Herbicide; Pharmaceutical intermediate
Promethazine HCl	58-33-3	AMINE, HETEROCYCLE, SULFUR COMPOUND, ORGANIC	Antihistamine; Anti-nausea drug
iso-Propanol	67-63-0	ALCOHOL	Solvent; Aerosol formulations (ingredient)

**Table of Chemical and Product Class Information**

<b>Substance</b>	<b>CASRN</b>	<b>Chemical Class</b>	<b>Product Class</b>
Propylene glycol (F42)	57-55-6	ALCOHOL	Antifreeze, Solvent, Emulsifier, Resins, Inhibitor of fermentation and mold growth
Pyridine	110-86-1	HETEROCYCLE	Solvent; Intermediate for pharmaceuticals, dyes, pesticides
4,4'-Pyridylpiperidine (F12)	-	HETEROCYCLE	Raw material
Quinacrine	69-05-6	AMINE, HETEROCYCLE, POLYCYCLIC COMPOUND	Anti-infective (anti-helmentic)
Silver nitrate	7761-88-8	INORGANIC	Germicide
Sodium dicyanamide (F3)	-	AMIDE	Raw material
Sodium dodecyl sulfate	151-21-3	ORGANIC SALT, CARBOXYLIC ACID, SALT	Anionic detergent, Emulsifier, Lubricant, Solubilizer
Sodium hydroxide	1310-73-2	INORGANIC, ALKALI	Acid neutralizer; caustic agent
Sodium hydroxide (1%)	1310-73-2	ALKALI	Caustic agent
Sodium hydroxide (10%)	1310-73-2	ALKALI	Caustic agent
Sodium hydroxide (F31)	1310-73-2	ALKALI	Caustic agent
Sodium lauryl sulfate (15 %)	151-21-3	SALT, ORGANIC, CARBOXYLIC ACID, SALT	Surfactant (anionic), Detergent
Sodium lauryl sulfate (3 %)	151-21-3	SALT, ORGANIC, CARBOXYLIC ACID, SALT	Surfactant (anionic), Detergent
Sodium oxalate	62-76-0	SALT, ORGANIC, CARBOXYLIC ACID, SALT	Textile finishing; Pyrotechnic, Industrial byproduct
Sodium perborate tetrahydrate	10486-00-7	SALT, INORGANIC, BORON COMPOUND	Household cleaner; Detergent
4,4'-Sulfonylbisbenzenamine (F25)	80-08-0	SULFUR COMPOUND, ORGANIC	Active pharmaceutical ingredient
Toluene	108-88-3	CYCLIC HYDROCARBON	Solvent; Gasoline additive; Manufacture of benzene derivatives, medicines, dyes, perfumes
Toluene	108-88-3	CYCLIC HYDROCARBON	Solvent; Gasoline additive; Manufacture of benzene derivatives, medicines, dyes, perfumes
Toluene (F40)	108-88-3	CYCLIC HYDROCARBON	Solvent; Gasoline additive; Manufacture of benzene derivatives, medicines, dyes, perfumes
Triacetin	102-76-1	ESTER	Solvent, Fixative
Tributyltin chloride	688-73-3	ORGANOTIN COMPOUND	Molluscicide, Slime control in paper mills, Wood preservative, disinfectant, Biocide in cooling systems, Leather and textile processing
Trichloroacetic acid (3%)	76-03-9	CARBOXYLIC ACID	Caustic agent; Fixative; Herbicide
Trichloroacetic acid (30%)	76-03-9	CARBOXYLIC ACID	Caustic agent; Fixative; Herbicide
Trichloroacetic acid (F32)	76-03-9	CARBOXYLIC ACID	Caustic agent; Fixative; Herbicide
Triethanolamine	102-71-6	AMINE, ALCOHOL	Chemical intermediate, Cosmetic ingredient, Vulcanization acelerator
Triton X-100 (10 %)	9002-93-1	ETHER	Surfactant (nonionic), Detergent, Emulsifier
Triton X-100 (5 %)	9002-93-1	ETHER	Surfactant (nonionic), Detergent, Emulsifier

**Table of Chemical and Product Class Information**

Substance	CASRN	Chemical Class	Product Class
Tween 20	9005-64-5	ESTER, ETHER	Surfactant (nonionic), Detergent

## **Appendix B2**

### **Table of Formulation Components in Gettings et al. (1996)**

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Formulation	Formulation Components	% (w/w)
<b>HZA-Shampoo No. 7<sup>a</sup></b>	Water Sodium lauryl sulfate (30%) Disodium laureth sulfocuccinate (40%) Lauramide DEA Butylene glucol Methyl and propylparabens Carageenan Methyl and methylchloroisothiazolinone	53.86 25.00 15.00 0.50 5.00 0.25 0.35 0.04
<b>HZB-Liquid Soap No. 1</b>	Water and volatiles Ammonium lauryl sulfate Sodium laureth sulfate Lauramide DEA Glycerine Isostearamidopropyl morpholine lactate Disodium ricinoleamido MEA-sulfosuccinate DMDM hydantoin Citric acid Triclosan Tetrasodium EDTA FD&C Yellow No. 5 FD&C Red No. 4	65-85 1-10 1-10 1-10 1-10 0.1-1.0 0.1-1.0 0.1-1.0 <0.1 <0.1 <0.1
<b>HZC-Shampoo No. 1</b>	Water Laurylamidopropyl betaine (30%) Cetrimonium chloride PEG-3 cocamide Citric acid Sodium chloride Ditolowdimonium chloride (73%) Lauryl alcohol Methyl and chloroisothiazolinone (1.5%)	14.037 60.000 16.000 4.500 3.500 1.000 0.700 0.250 0.033

<b>Formulation</b>	<b>Formulation Components</b>	<b>% (w/w)</b>
<b>HZD-Shampoo No. 5<sup>a</sup></b>	Water Sodium laureth sulfate (26%) Cocamide DEA Cocamide propyl betaine (37%) Disodium EDTA Methylparaben Propylparaben Citric acid FD&C Yellow No. 5 (1%) D&C Red No. 33 (0.5%) DMDM hydantoin (54%) BHT Sodium glutamate Sodium choride	54.120 38.00 3.000 1.750 0.050 0.150 0.100 0.250 0.050 0.015 0.300 0.050 2.000 0.170
<b>HZE-Gel Cleanser<sup>a</sup></b>	Water Acylglutamate CT-12 (30%) Cocoamphodiacetate (50%) Sodium nonoxynol-6 phosphate (88.5%) Quaternium-26 (58%) PEG-120-methyl glucose dioleate Citric acid Sodium citrate Disodium EDTA Methylparaben DMDM hydantoin (55%) FD&C Yellow No. 10 (1%) D&C Blue No. 1 (0.746%)	59.974 15.000 15.000 6.000 1.500 1.500 0.100 0.500 0.050 0.150 0.200 0.001 0.025
<b>HZF-Baby Shampoo No. 2<sup>a</sup></b>	Water Sodium laureth (2EO) sulfate (28%) Disodium laureth-3-sulfosuccinate (40%) Cocamidopropyl betaine (30%) Lauramide DEA Kathon CG (1.5%) Tetrasodium EDTA (30%)	57.653 21.430 9.090 10.000 1.500 0.067 0.260

Formulation	Formulation Components	% (w/w)
<b>HZG-Shampoo No. 8</b>	Water Sodium laureth sulfate (28%) Sodium lauryl sulfate (30%) Lauramide-DEA Hydroxyethyl tallow glycinate Citric acid PEG-45M Methyl and propylparabens Methyl and chloromethyl-isothiazolinone	48.43 20.00 25.00 5.00 1.00 0.20 0.20 0.13 0.04
<b>HZH-Eye Make-Up Remover<sup>a</sup></b>	Water Sodium laureth sulfate (21%) Cocoamphocarboxyglycinate (40%) Hexylene glycol Dipotassium phosphate Potassium phosphate Allantoin Methyl paraben EDTA Rose water Thimerosal	96.242 0.900 1.100 1.000 0.394 0.102 0.050 0.150 0.150 0.008 0.003
<b>HZI-Skin Cleanser</b>	Water Sodium laureth sulfate (30%) Cocamide MEA Sodium chloride Disodium EDTA Imidizolidinyl urea Methylparaben Benzoic acid	44.0 50.0 5.0 0.4 0.2 0.2 0.2 0.1

<b>Formulation</b>	<b>Formulation Components</b>	<b>% (w/w)</b>
<b>HZJ-Mild Shampoo<sup>a</sup></b>	Water Tween 20 Cocoamphodiacetate (24%) PEG 6000 Cedepal TD403 (75%) Hydrochloric acid (15%) Arlace 20 Benzyl alcohol Dowicil 200 D&C Yellow No. 10 (0.2%) D&C Orange No. 4 (0.2%)	52.09 12.63 21.25 2.60 6.53 1.68 0.92 0.10 0.10 1.70 0.20
<b>HZK-Bubble Bath<sup>a</sup></b>	Water Sodium laureth sulfate (60%) Lauramide DEA SD Alcohol 3-A Sodium chloride Triethanolamine Phosphoric acid (86.5%) Sorbic acid	68.75 25.00 4.50 3.75 0.80 0.40 0.35 0.20
<b>HZL-Foam Bath</b>	Water Sodium laureth sulfate (26%) Cocamido propyl betaine (30%) Sodium chloride Glycol monostearate Color solution DMDM hydantoin (54%) Methylparaben Propylparaben BHT Aloe vera gel Citric acid Tetrasodium EDTA	47.760 46.000 2.500 2.400 0.400 0.300 0.250 0.200 0.100 0.050 0.015 0.016 0.010

<b>Formulation</b>	<b>Formulation Components</b>	<b>% (w/w)</b>
<b>HZM-Shampoo No. 3</b>	Water Ammonium lauryl sulfate Lauramide DEA Cocamidopropyl sultaine Citric acid Ammonium chloride DMDM Hydantoin Tetrasodium EDTA Methylparaben FD&C Yellow No. 5 D&C Yellow No. 10 FD&C Red No. 4 PPG-9	80-90 5-10 1-5 1-5 <1.0 <1.0 <1.0 <1.0 <1.0 <0.1 <0.1 <0.1 q.s.
<b>HZN-Shampoo No. 6<sup>a</sup></b>	Water Sodium laureth (2EO) sulfate (28%) cocamidopropyl betaine (30%) Tetrasodium EDTA Formalin	44.381 43.634 11.760 0.125 0.100
<b>HZP-Baby Shampoo No. 1<sup>a</sup></b>	Water PEG-80 sorbitan laurate (50%) Sodium trideceth sulfate (50%) Lauroamphocarboxyglycinate (50%) PEG-150 distearate (50%) Cocamidoroyl hydroxysultane (50%) Sodium laureth-13 carboxylate (50%) Quaternium 15 Benzyl alcohol FD&C Yellow No. 5 (1.0%) FD&C Yellow No. 6 (1.0%) Citric acid	49.54 23.60 17.40 5.40 5.00 4.00 1.00 0.03 0.05 0.25 0.05 0.08

<b>Formulation</b>	<b>Formulation Components</b>	<b>% (w/w)</b>
<b>HZQ-Cleansing Gel<sup>a</sup></b>	Water Lauramphocarboxyglycinate (25%) Sodium trideceth sulfate (16%) TEA-lauryl sulfate (40%) Lauramide DEA PEG-150 distearate Propylene glycol Hexylene glycol Citric acid Diazolidinyl urea Methylparaben Sodium citrate	68.93 10.40 10.60 3.50 0.50 2.80 1.40 1.05 0.28 0.20 0.20 0.14
<b>HZR-Facial Cleansing Foam</b>	Water Sodium cocoyl isethionate Sodium lauroyl sarcosinate (30%) PPG-5-ceteth-10 phosphate Linoleamide DEA Sorbitol (70%) Glycol stearate Glycerin Diglycerol Cetearyl alcohol Mineral oil Methylparaben Propylparaben Trisodium EDTA Beeswax Ceresin Sodium borate	32.97 20.00 25.00 4.00 2.00 2.75 5.50 2.00 2.00 2.75 0.50 0.15 0.10 0.10 0.10 0.06 0.02

<b>Formulation</b>	<b>Formulation Components</b>	<b>% (w/w)</b>
<b>HZS-Shower Gel</b>	Water Sodium lauroyl sarcosinate (30%) Laurimidopropyl betaine (30%) Cocamidopropyl hydroxysultaine (50%) Linoleamide DEA Glycol stearate Polyquaternium-2 Phosphoric acid (86.5%) Tetrasodium EDTA BHT PPG-12-buteth-16 Methyl and chlorosothiazolinone (1.5%)	27.567 25.000 25.000 15.000 4.500 1.000 1.000 0.600 0.200 0.050 0.050 0.033
<b>HZT-Polishing Scrub</b>	Water Mineral oil Lauroamphocarboxyglycinate (25%) Sodium trideceth sulfate (16%) Petrolatum Isopropyl palmitate Propylene glycol Cetyl palmitate Glyceryl stearate and PEG-100 stearate Aluminum silicate Cetyl alcohol Polypropylene Magnesium aluminum silicate Titanium dioxide Hexylene glycol Imidazolidinyl urea Methylparaben Lactic acid Propylparaben	33.85 10.00 8.80 9.40 6.60 6.60 5.00 4.40 4.40 3.00 2.50 2.50 1.00 0.50 0.40 0.30 0.30 0.25 0.20

<b>Formulation</b>	<b>Formulation Components</b>	<b>% (w/w)</b>
<b>HZU-Hand Soap</b>	Water Sodium C14-16 olefin sulfonate (36%) Sodium lauroyl sarcosinate Cocamidopropyl hydroxysultaine Propylene glycol Glycerol stearate PPG-12-PEG-50 lanolin Polyquaternium-7 Citric acid Hydrolysed animal protein Polyquaternium-10 Quaternium-15 Aloe vera gel	37.95 20.25 20.00 8.00 3.00 3.00 3.00 2.00 1.00 1.00 0.50 0.20 0.10
<b>HZV-Shampoo No. 4</b>	Water Ammonium lauryl sulfate Lauramide DEA Cocamidopropyl sultaine Ammonium chloride USP Citric acid DMDM hydantoin Tetrasodium EDTA Methylparaben FD&C Yellow No. 5 D&C Yellow No. 10 FD&C Red No. 4 PPG-9	80-90 5-10 1-5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 q.s.
<b>HZW-Liquid Soap No. 2</b>	Water and volatiles TEA-lauryl sulfate Sodium laureth sulfate Sodium lauroyl sarcosinate Lauramide DEA Glycol distearate Isostearamideopropyl morpholine lactate Disodium ricinoleamido MEA-sulfosuccinate DMDM hydantoin Citric acid Tetrasodium EDTA	60-80 1-10 1-10 1-10 1-10 1-10 0.1-1.0 0.1-1.0 0.1-1.0 0.1-1.0 <0.1

<b>Formulation</b>	<b>Formulation Components</b>	<b>% (w/w)</b>
<b>HZX-Shampoo No. 2</b>	Water Ammonium lauryl sulfate (25%) Cocamide DEA Hydroxypropyl methylcellulose EDTA Formaldehyde Benzyl alcohol Benzophenone-4 sodium hydroxide Citric acid Ammonium chloride FD&C Blue No. 1	69.1895 25.0000 3.0000 1.4500 0.6000 0.2000 0.2000 0.0400 0.0100 0.0100 0.0005
<b>HZY-Anti-Dandruff Shampoo</b>	Water Sodium lauroyl sarcosinate (30%) Lauramide DEA TEA-lauryl sulfate (40%) Glycol distearate Zinc pyrithione Sodium chloride Citric acid Imidazolidinyl urea Methylparaben Propylparaben Xanthan gum	27.13 15.00 4.50 45.00 3.00 2.10 1.20 0.90 0.50 0.30 0.10 0.27

Formulation	Formulation Components	% (w/w)
<b>HZZ-Facial Cleanser<sup>a</sup></b>	Water	32.55
	Mineral oil	40.00
	Beeswax	2.30
	PEG-16 soya sterol	5.00
	PEG-8 dilaurate	2.00
	Cetearyl alcohol (70%)	0.80
	Ceteareth 20 (30%)	0.80
	Beheme acid	0.80
	Sodium borate	0.75
	Ceresin	0.50
	Carbopol dispersion (25%)	15.00
	Methylparaben	0.15
	Propylparaben	0.10
	Disodium EDTA	0.05

Abbreviations: 2EO = diethoxylated; BHT = Butylated hydroxytoluene; D&C = Drug and Cosmetic; DEA = Diethanolamide; EDTA = ethylenediaminetetraacetic acid; FD&C = Food, Drug, and Cosmetic; MEA = Monoethanolamide; PEG = Polyethylene glycol; PPG = Polypropylene glycol; TEA = Triethanolamine; USP = U.S. Pharmacopoeia; w/w = weight to weight ratio.

<sup>a</sup>Noted formulations are included in the proposed recommended list of substances in **Section 12.0**.