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LISTE DES PRODUITS CHIMIQUES CONTENUS DANS LE LIQUIDE DE FRACTURATION HYDRAULIQUE DESTINE A L'EXTRACTION DU GAZ DE SCHISTE.

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Appendix A. Chemical Components of Hydraulic Fracturing Products, 2005-200935

1-(1-naphthylmethyl)quinolinium chloride 65322-65-8 1
1,2,3-propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate 6132-04-3 1
1,2,3-trimethylbenzene 526-73-8 1
1,2,4-trimethylbenzene 95-63-6 21
1,2-benzisothiazol-3 2634-33-5 1
1,2-dibromo-2,4-dicyanobutane 35691-65-7 1
1,2-ethanediaminium, N, N'-bis[2-[bis(2-hydroxyethyl)methylammonio]ethyl]-N,N'-bis(2-hydroxyethyl)-N,N'-dimethyl-, tetrachloride 138879-94-4 2
1,3,5-trimethylbenzene 108-67-8 3
1,6-hexanediamine dihydrochloride 6055-52-3 1
1,8-diamino-3,6-dioxaoctane 929-59-9 1
1-hexanol 111-27-3 1
1-methoxy-2-propanol 107-98-2 3
2,2'-azobis (2-amidopropane) dihydrochloride 2997-92-4 1
2,2-dibromo-3-nitrilopropionamide 10222-01-2 27
2-acrylamido-2-methylpropanesulphonic acid sodium salt polymer * 1
2-bromo-2-nitropropane-1,3-diol 52-51-7 4
2-butanone oxime 96-29-7 1
2-hydroxypropionic acid 79-33-4 2
2-mercaptoethanol (Thioglycol) 60-24-2 13
2-methyl-4-isothiazolin-3-one 2682-20-4 4
2-monobromo-3-nitrilopropionamide 1113-55-9 1
2-phosphonobutane-1,2,4-tricarboxylic acid 37971-36-1 2
2-phosphonobutane-1,2,4-tricarboxylic acid, potassium salt 93858-78-7 1
2-substituted aromatic amine salt * 1
4,4'-diaminodiphenyl sulfone 80-08-0 3
5-chloro-2-methyl-4-isothiazolin-3-one 26172-55-4 5
Acetaldehyde 75-07-0 1

Acetic acid 64-19-7 56
Acetic anhydride 108-24-7 7
Acetone 67-64-1 3
Acetophenone 98-86-2 1
Acetylenic alcohol * 1
Acetyltriethyl citrate 77-89-4 1
Acrylamide 79-06-1 2
Acrylamide copolymer * 1
Acrylamide copolymer 38193-60-1 1
Acrylate copolymer * 1
Acrylic acid, 2-hydroxyethyl ester 818-61-1 1
Acrylic acid/2-acrylamido-methylpropylsulfonic acid copolymer 37350-42-8 1
Acrylic copolymer 403730-32-5 1
Acrylic polymers * 1
Acrylic polymers 26006-22-4 2
Acyclic hydrocarbon blend * 1
Adipic acid 124-04-9 6
Alcohol alkoxylate * 5
Alcohol ethoxylates * 2
Alcohols * 9
Alcohols, C11-15-secondary, ethoxylated 68131-40-8 1
Alcohols, C12-14-secondary 126950-60-5 4
Alcohols, C12-14-secondary, ethoxylated 84133-50-6 19
Alcohols, C12-15, ethoxylated 68131-39-5 2
Alcohols, C12-16, ethoxylated 103331-86-8 1
Alcohols, C12-16, ethoxylated 68551-12-2 3
Alcohols, C14-15, ethoxylated 68951-67-7 5
Alcohols, C9-11-iso-, C10-rich, ethoxylated 78330-20-8 4
Alcohols, C9-C22 * 1
Aldehyde * 4
Aldol 107-89-1 1
Alfa-Alumina * 5
Aliphatic acid * 1
Aliphatic alcohol polyglycol ether 68015-67-8 1

Aliphatic amine derivative 120086-58-0 2
Alkaline bromide salts * 2
Alkanes, C10-14 93924-07-3 2
Alkanes, C13-16-iso 68551-20-2 2
Alkanolamine 150-25-4 3
Alkanolamine chelate of zirconium alkoxide (Zirconium complex) 197980-53-3 4
Alkanolamine/aldehyde condensate * 1
Alkenes * 1
Alkenes, C>10 alpha- 64743-02-8 3
Alkenes, C>8 68411-00-7 2
Alkoxyated alcohols * 1
Alkoxyated amines * 6
Alkoxyated phenol formaldehyde resin 63428-92-2 1
Alkyaryl sulfonate * 1
Alkyl (C12-16) dimethyl benzyl ammonium chloride 68424-85-1 7
Alkyl (C6-C12) alcohol, ethoxyated 68439-45-2 2
Alkyl (C9-11) alcohol, ethoxyated 68439-46-3 1
Alkyl alkoxyate * 9
Alkyl amine * 2
Alkyl amine blend in a metal salt solution * 1
Alkyl aryl amine sulfonate 255043-08-04 1
Alkyl benzenesulfonic acid 68584-22-5 2
Alkyl esters * 2
Alkyl hexanol * 1
Alkyl ortho phosphate ester * 1
Alkyl phosphate ester * 3
Alkyl quaternary ammonium chlorides * 4
Alkylaryl sulfonate * 1
Alkylaryl sulphonic acid 27176-93-9 1
Alkylated quaternary chloride * 5
Alkylbenzenesulfonic acid * 1
Alkylethoammonium sulfates * 1
Alkylphenol ethoxyates * 1
Almandite and pyrope garnet 1302-62-1 1

Aluminium isopropoxide 555-31-7 1
Aluminum 7429-90-5 2
Aluminum chloride * 3
Aluminum chloride 1327-41-9 2
Aluminum oxide (alpha-Alumina) 1344-28-1 24
Aluminum oxide silicate 12068-56-3 1
Aluminum silicate (mullite) 1302-76-7 38
Aluminum sulfate hydrate 10043-01-3 1
Amides, tallow, n-[3-(dimethylamino)propyl],n-oxides 68647-77-8 4
Amidoamine * 1
Amine * 7
Amine bisulfite 13427-63-9 1
Amine oxides * 1
Amine phosphonate * 3
Amine salt * 2
Amines, C14-18; C16-18-unsaturated, alkyl, ethoxylated 68155-39-5 1
Amines, coco alkyl, acetate 61790-57-6 3
Amines, polyethylenepoly-, ethoxylated, phosphonomethylated 68966-36-9 1
Amines, tallow alkyl, ethoxylated 61791-26-2 2
Amino compounds * 1
Amino methylene phosphonic acid salt * 1
Amino trimethylene phosphonic acid 6419-19-8 2
Ammonia 7664-41-7 7
Ammonium acetate 631-61-8 4
Ammonium alcohol ether sulfate 68037-05-8 1
Ammonium bicarbonate 1066-33-7 1
Ammonium bifluoride (Ammonium hydrogen difluoride) 1341-49-7 10
Ammonium bisulfate 7783-20-2 3
Ammonium bisulfite 10192-30-0 15
Ammonium C6-C10 alcohol ethoxysulfate 68187-17-7 4
Ammonium C8-C10 alkyl ether sulfate 68891-29-2 4
Ammonium chloride 12125-02-9 29
Ammonium fluoride 12125-01-8 9
Ammonium hydroxide 1336-21-6 4

Ammonium nitrate 6484-52-2 2
Ammonium persulfate (Diammonium peroxodisulfate) 7727-54-0 37
Ammonium salt * 1
Ammonium salt of ethoxylated alcohol sulfate * 1
Amorphous silica 99439-28-8 1
Amphoterich alkyl amine 61789-39-7 1
Anionic copolymer * 3
Anionic polyacrylamide * 1
Anionic polyacrylamide 25085-02-3 6
Anionic polyacrylamide copolymer * 3
Anionic polymer * 2
Anionic polymer in solution * 1
Anionic polymer, sodium salt 9003-04-7 1
Anionic water-soluble polymer * 2
Antifoulant * 1
Antimonate salt * 1
Antimony pentoxide 1314-60-9 2
Antimony potassium oxide 29638-69-5 4
Antimony trichloride 10025-91-9 2
a-organic surfactants 61790-29-8 1
Aromatic alcohol glycol ether * 2
Aromatic aldehyde * 2
Aromatic ketones 224635-63-6 2
Aromatic polyglycol ether * 1
Barium sulfate 7727-43-7 3
Bauxite 1318-16-7 16
Bentonite 1302-78-9 2
Benzene 71-43-2 3
Benzene, C10-16, alkyl derivatives 68648-87-3 1
Benzenecarboxylic acid, 1,1-dimethylethyl ester 614-45-9 1
Benzenemethanaminium 3844-45-9 1
Benzenesulfonic acid, C10-16-alkyl derivs., potassium salts 68584-27-0 1
Benzoic acid 65-85-0 11
Benzyl chloride 100-44-7 8

Biocide component * 3
Bis(1-methylethyl)naphthalenesulfonic acid, cyclohexylamine salt 68425-61-6 1
Bis(2-hydroxyethyl)amine penta methylene phosphonic acid 35657-77-3 1
Bisphenol A/Epichlorohydrin resin 25068-38-6 5
Bisphenol A/Novolac epoxy resin 28906-96-9 1
Borate 12280-03-4 2
Borate salts * 5
Boric acid 10043-35-3 18
Boric acid, potassium salt 20786-60-1 1
Boric acid, sodium salt 1333-73-9 2
Boric oxide 1303-86-2 1
b-tricalcium phosphate 7758-87-4 1
Butanedioic acid 2373-38-8 4
Butanol 71-36-3 3
Butyl glycidyl ether 2426-08-6 5
Butyl lactate 138-22-7 4
C10-C16 ethoxylated alcohol 68002-97-1 4
C-11 to C-14 n-alkanes, mixed * 1
C12-C14 alcohol, ethoxylated 68439-50-9 3
Calcium carbonate 471-34-1 1
Calcium carbonate (Limestone) 1317-65-3 9
Calcium chloride 10043-52-4 17
Calcium chloride, dihydrate 10035-04-8 1
Calcium fluoride 7789-75-5 2
Calcium hydroxide 1305-62-0 9
Calcium hypochlorite 7778-54-3 1
Calcium oxide 1305-78-8 6
Calcium peroxide 1305-79-9 5
Carbohydrates * 3
Carbon dioxide 124-38-9 4
Carboxymethyl guar gum, sodium salt 39346-76-4 7
Carboxymethyl hydroxypropyl guar 68130-15-4 11
Cellophane 9005-81-6 2
Cellulase 9012-54-8 7

Cellulase enzyme * 1
Cellulose 9004-34-6 1
Cellulose derivative * 2
Chloromethylnaphthalene quinoline quaternary amine 15619-48-4 3
Chlorous ion solution * 2
Choline chloride 67-48-1 3
Chromates * 1
Chromium (iii) acetate 1066-30-4 1
Cinnamaldehyde (3-phenyl-2-propenal) 104-55-2 5
Citric acid (2-hydroxy-1,2,3 propanetricarboxylic acid) 77-92-9 29
Citrus terpenes 94266-47-4 11
Coal, granular 50815-10-6 1
Cobalt acetate 71-48-7 1
Cocamidopropyl betaine 61789-40-0 2
Cocamidopropylamine oxide 68155-09-9 1
Coco bis-(2-hydroxyethyl) amine oxide 61791-47-7 1
Cocoamidopropyl betaine 70851-07-9 1
Cocomidopropyl dimethylamine 68140-01-2 1
Coconut fatty acid diethanolamide 68603-42-9 1
Collagen (Gelatin) 9000-70-8 6
Complex alkylaryl polyo-ester * 1
Complex aluminum salt * 2
Complex organometallic salt * 2
Complex substituted keto-amine 143106-84-7 1
Complex substituted keto-amine hydrochloride * 1
Copolymer of acrylamide and sodium acrylate 25987-30-8 1
Copper 7440-50-8 1
Copper iodide 7681-65-4 1
Copper sulfate 7758-98-7 3
Corundum (Aluminum oxide) 1302-74-5 48
Crotonaldehyde 123-73-9 1
Crystalline silica - cristobalite 14464-46-1 44
Crystalline silica - quartz (SiO₂) 14808-60-7 207
Crystalline silica, tridymite 15468-32-3 2

Cumene 98-82-8 6
Cupric chloride 7447-39-4 10
Cupric chloride dihydrate 10125-13-0 7
Cuprous chloride 7758-89-6 1
Cured acrylic resin * 7
Cured resin * 4
Cured silicone rubber-polydimethylsiloxane 63148-62-9 1
Cured urethane resin * 3
Cyclic alkanes * 1
Cyclohexane 110-82-7 1
Cyclohexanone 108-94-1 1
Decanol 112-30-1 2
Decyl-dimethyl amine oxide 2605-79-0 4
Dextrose monohydrate 50-99-7 1
D-Glucitol 50-70-4 1
Di (2-ethylhexyl) phthalate 117-81-7 3
Di (ethylene glycol) ethyl ether acetate 112-15-2 4
Diatomaceous earth 61790-53-2 3
Diatomaceous earth, calcined 91053-39-3 7
Dibromoacetonitrile 3252-43-5 1
Dibutylaminoethanol (2-dibutylaminoethanol) 102-81-8 4
Di-calcium silicate 10034-77-2 1
Dicarboxylic acid * 1
Didecyl dimethyl ammonium chloride 7173-51-5 1
Diesel * 1
Diesel 68334-30-5 3
Diesel 68476-30-2 4
Diesel 68476-34-6 43
Diethanolamine (2,2-iminodiethanol) 111-42-2 14
Diethylbenzene 25340-17-4 1
Diethylene glycol 111-46-6 8
Diethylene glycol monomethyl ether 111-77-3 4
Diethylene triaminepenta (methylene phosphonic acid) 15827-60-8 1
Diethylenetriamine 111-40-0 2

Diethylenetriamine, tall oil fatty acids reaction product 61790-69-0 1

Diisopropyl naphthalenesulfonic acid 28757-00-8 2

Dimethyl formamide 68-12-2 5

Dimethyl glutarate 1119-40-0 1

Dimethyl silicone * 2

Dioctyl sodium sulfosuccinate 577-11-7 1

Dipropylene glycol 25265-71-8 1

Dipropylene glycol monomethyl ether (2-methoxymethylethoxy propanol) 34590-94-8 12

Di-secondary-butylphenol 53964-94-6 3

Disodium EDTA 139-33-3 1

Disodium ethylenediaminediacetate 38011-25-5 1

Disodium ethylenediaminetetraacetate dihydrate 6381-92-6 1

Disodium octaborate tetrahydrate 12008-41-2 1

Dispersing agent * 1

d-Limonene 5989-27-5 11

Dodecyl alcohol ammonium sulfate 32612-48-9 2

Dodecylbenzene sulfonic acid 27176-87-0 14

Dodecylbenzene sulfonic acid salts 42615-29-2 2

Dodecylbenzene sulfonic acid salts 68648-81-7 7

Dodecylbenzene sulfonic acid salts 90218-35-2 1

Dodecylbenzenesulfonate isopropanolamine 42504-46-1 1

Dodecylbenzenesulfonic acid, monoethanolamine salt 26836-07-7 1

Dodecylbenzenesulphonic acid, morpholine salt 12068-08-5 1

EDTA/Copper chelate * 2

EO-C7-9-iso-, C8-rich alcohols 78330-19-5 5

Epichlorohydrin 25085-99-8 5

Epoxy resin * 5

Erucic amidopropyl dimethyl betaine 149879-98-1 3

Erythorbic acid 89-65-6 2

Essential oils * 6

Ethanaminium, n,n,n-trimethyl-2-[(1-oxo-2-propenyl)oxy]-,chloride, polymer with 2-propenamide 69418-26-4 4

Ethanol (Ethyl alcohol) 64-17-5 36

Ethanol, 2-(hydroxymethylamino)- 34375-28-5 1

Ethanol, 2, 2'-(Octadecylamino) bis- 10213-78-2 1

Ethanoldiglycine disodium salt 135-37-5 1

Ether salt 25446-78-0 2

Ethoxylated 4-nonylphenol (Nonyl phenol ethoxylate) 26027-38-3 9

Ethoxylated alcohol 104780-82-7 1

Ethoxylated alcohol 78330-21-9 2

Ethoxylated alcohols * 3

Ethoxylated alkyl amines * 1

Ethoxylated amine * 1

Ethoxylated amines 61791-44-4 1

Ethoxylated fatty acid ester * 1

Ethoxylated nonionic surfactant * 1

Ethoxylated nonyl phenol * 8

Ethoxylated nonyl phenol 68412-54-4 10

Ethoxylated nonyl phenol 9016-45-9 38

Ethoxylated octyl phenol 68987-90-6 1

Ethoxylated octyl phenol 9002-93-1 1

Ethoxylated octyl phenol 9036-19-5 3

Ethoxylated oleyl amine 13127-82-7 2

Ethoxylated oleyl amine 26635-93-8 1

Ethoxylated sorbitol esters * 1

Ethoxylated tridecyl alcohol phosphate 9046-01-9 2

Ethoxylated undecyl alcohol 127036-24-2 2

Ethyl acetate 141-78-6 4

Ethyl acetoacetate 141-97-9 1

Ethyl octynol (1-octyn-3-ol,4-ethyl-) 5877-42-9 5

Ethylbenzene 100-41-4 28

Ethylene glycol (1,2-ethanediol) 107-21-1 119

Ethylene glycol monobutyl ether (2-butoxyethanol) 111-76-2 126

Ethylene oxide 75-21-8 1

Ethylene oxide-nonylphenol polymer * 1

Ethylenediaminetetraacetic acid 60-00-4 1

Ethylene-vinyl acetate copolymer 24937-78-8 1

Ethylhexanol (2-ethylhexanol) 104-76-7 18

Fatty acid ester * 1
Fatty acid, tall oil, hexa esters with sorbitol, ethoxylated 61790-90-7 1
Fatty acids * 1
Fatty alcohol alkoxylate * 1
Fatty alkyl amine salt * 1
Fatty amine carboxylates * 1
Fatty quaternary ammonium chloride 61789-68-2 1
Ferric chloride 7705-08-0 3
Ferric sulfate 10028-22-5 7
Ferrous sulfate, heptahydrate 7782-63-0 4
Fluoroaliphatic polymeric esters * 1
Formaldehyde 50-00-0 12
Formaldehyde polymer * 2
Formaldehyde, polymer with 4-(1,1-dimethyl)phenol, methyloxirane and oxirane 30704-64-4 3
Formaldehyde, polymer with 4-nonylphenol and oxirane 30846-35-6 1
Formaldehyde, polymer with ammonia and phenol 35297-54-2 2
Formamide 75-12-7 5
Formic acid 64-18-6 24
Fumaric acid 110-17-8 8
Furfural 98-01-1 1
Furfuryl alcohol 98-00-0 3
Glass fiber 65997-17-3 3
Gluconic acid 526-95-4 1
Glutaraldehyde 111-30-8 20
Glycerol (1,2,3-Propanetriol, Glycerine) 56-81-5 16
Glycol ethers * 9
Glycol ethers 9004-77-7 4
Glyoxal 107-22-2 3
Glyoxylic acid 298-12-4 1
Guar gum 9000-30-0 41
Guar gum derivative * 12
Haloalkyl heteropolycycle salt * 6
Heavy aromatic distillate 68132-00-3 1
Heavy aromatic petroleum naphtha 64742-94-5 45

Heavy catalytic reformed petroleum naphtha 64741-68-0 10

Hematite * 5

Hemicellulase 9025-56-3 2

Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine (Triazine) 4719-04-4 4

Hexamethylenetetramine 100-97-0 37

Hexanediamine 124-09-4 1

Hexanes * 1

Hexylene glycol 107-41-5 5

Hydrated aluminum silicate 1332-58-7 4

Hydrocarbon mixtures 8002-05-9 1

Hydrocarbons * 3

Hydrodesulfurized kerosine (petroleum) 64742-81-0 3

Hydrodesulfurized light catalytic cracked distillate (petroleum) 68333-25-5 1

Hydrodesulfurized middle distillate (petroleum) 64742-80-9 1

Hydrogen chloride (Hydrochloric acid) 7647-01-0 42

Hydrogen fluoride (Hydrofluoric acid) 7664-39-3 2

Hydrogen peroxide 7722-84-1 4

Hydrogen sulfide 7783-06-4 1

Hydrotreated and hydrocracked base oil * 2

Hydrotreated heavy naphthenic distillate 64742-52-5 3

Hydrotreated heavy paraffinic petroleum distillates 64742-54-7 1

Hydrotreated heavy petroleum naphtha 64742-48-9 7

Hydrotreated light petroleum distillates 64742-47-8 89

Hydrotreated middle petroleum distillates 64742-46-7 3

Hydroxyacetic acid (Glycolic acid) 79-14-1 6

Hydroxyethylcellulose 9004-62-0 1

Hydroxyethylethylenediaminetriacetic acid, trisodium salt 139-89-9 1

Hydroxylamine hydrochloride 5470-11-1 1

Hydroxypropyl guar gum 39421-75-5 2

Hydroxysultaine * 1

Inner salt of alkyl amines * 2

Inorganic borate * 3

Inorganic particulate * 1

Inorganic salt * 1

Inorganic salt 533-96-0 1
Inorganic salt 7446-70-0 1
Instant coffee purchased off the shelf * 1
Inulin, carboxymethyl ether, sodium salt 430439-54-6 1
Iron oxide 1332-37-2 2
Iron oxide (Ferric oxide) 1309-37-1 18
Iso amyl alcohol 123-51-3 1
Iso-alkanes/n-alkanes * 10
Isobutanol (Isobutyl alcohol) 78-83-1 4
Isomeric aromatic ammonium salt * 1
Isooctanol 26952-21-6 1
Isooctyl alcohol 68526-88-0 1
Isooctyl alcohol bottoms 68526-88-5 1
Isopropanol (Isopropyl alcohol, Propan-2-ol) 67-63-0 274
Isopropylamine 75-31-0 1
Isotridecanol, ethoxylated 9043-30-5 1
Kerosene 8008-20-6 13
Lactic acid 10326-41-7 1
Lactic acid 50-21-5 1
L-Dilactide 4511-42-6 1
Lead 7439-92-1 1
Light aromatic solvent naphtha 64742-95-6 11
Light catalytic cracked petroleum distillates 64741-59-9 1
Light naphtha distillate, hydrotreated 64742-53-6 1
Low toxicity base oils * 1
Maghemite * 2
Magnesium carbonate 546-93-0 1
Magnesium chloride 7786-30-3 4
Magnesium hydroxide 1309-42-8 4
Magnesium iron silicate 1317-71-1 3
Magnesium nitrate 10377-60-3 5
Magnesium oxide 1309-48-4 18
Magnesium peroxide 1335-26-8 2
Magnesium peroxide 14452-57-4 4

Magnesium phosphide 12057-74-8 1
Magnesium silicate 1343-88-0 3
Magnesium silicate hydrate (talc) 14807-96-6 2
Magnetite * 3
Medium aliphatic solvent petroleum naphtha 64742-88-7 10
Metal salt * 2
Metal salt solution * 1
Methanol (Methyl alcohol) 67-56-1 342
Methyl isobutyl carbinol (Methyl amyl alcohol) 108-11-2 3
Methyl salicylate 119-36-8 6
Methyl vinyl ketone 78-94-4 2
Methylcyclohexane 108-87-2 1
Mica 12001-26-2 3
Microcrystalline silica 1317-95-9 1
Mineral * 1
Mineral Filler * 1
Mineral spirits (stoddard solvent) 8052-41-3 2
Mixed titanium ortho ester complexes * 1
Modified alkane * 1
Modified cycloaliphatic amine adduct * 3
Modified lignosulfonate * 1
Monoethanolamine (Ethanolamine) 141-43-5 17
Monoethanolamine borate 26038-87-9 1
Morpholine 110-91-8 2
Mullite 1302-93-8 55
n,n-dibutylthiourea 109-46-6 1
N,N-dimethyl-1-octadecanamine-HCl * 1
N,N-dimethyloctadecylamine 124-28-7 3
N,N-dimethyloctadecylamine hydrochloride 1613-17-8 2
n,n'-Methylenebisacrylamide 110-26-9 1
n-alkyl dimethyl benzyl ammonium chloride 139-08-2 1
Naphthalene 91-20-3 44
Naphthalene derivatives * 1
Naphthalenesulphonic acid, bis (1-methylethyl)-methyl derivatives 99811-86-6 1

Natural asphalt 12002-43-6 1
n-cocoamidopropyl-n,n-dimethyl-n-2-hydroxypropylsulfobetaine 68139-30-0 1
n-dodecyl-2-pyrrolidone 2687-96-9 1
N-heptane 142-82-5 1
Nickel sulfate hexahydrate 10101-97-0 2
Nitrilotriacetamide 4862-18-4 4
Nitrilotriacetic acid 139-13-9 6
Nitrilotriacetonitrile 7327-60-8 3
Nitrogen 7727-37-9 9
n-Methylpyrrolidone 872-50-4 1
Nonane, all isomers * 1
Non-hazardous salt * 1
Nonionic surfactant * 1
Nonyl phenol ethoxylate * 2
Nonyl phenol ethoxylate 9016-45-6 2
Nonyl phenol ethoxylate 9018-45-9 1
Nonylphenol 25154-52-3 1
Nonylphenol, ethoxylated and sulfated 9081-17-8 1
N-propyl zirconate * 1
N-tallowalkyltrimethylenediamines * 1
Nuisance particulates * 2
Nylon fibers 25038-54-4 2
Octanol 111-87-5 2
Octyltrimethylammonium bromide 57-09-0 1
Olefinic sulfonate * 1
Olefins * 1
Organic acid salt * 3
Organic acids * 1
Organic phosphonate * 1
Organic phosphonate salts * 1
Organic phosphonic acid salts * 6
Organic salt * 1
Organic sulfur compound * 2
Organic titanate * 2

Organiophilic clay * 2
Organo-metallic ammonium complex * 1
Other inorganic compounds * 1
Oxirane, methyl-, polymer with oxirane, mono-C10-16-alkyl ethers, phosphates 68649-29-6 1
Oxyalkylated alcohol * 6
Oxyalkylated alcohols 228414-35-5 1
Oxyalkylated alkyl alcohol * 1
Oxyalkylated alkylphenol * 1
Oxyalkylated fatty acid * 2
Oxyalkylated phenol * 1
Oxyalkylated polyamine * 1
Oxylated alcohol * 1
Paraffin wax 8002-74-2 1
Paraffinic naphthenic solvent * 1
Paraffinic solvent * 5
Paraffins * 1
Perlite 93763-70-3 1
Petroleum distillates * 26
Petroleum distillates 64742-65-0 1
Petroleum distillates 64742-97-5 1
Petroleum distillates 68477-31-6 3
Petroleum gas oils * 1
Petroleum gas oils 64741-43-1 1
Phenol 108-95-2 5
Phenol-formaldehyde resin 9003-35-4 32
Phosphate ester * 6
Phosphate esters of alkyl phenyl ethoxylate 68412-53-3 1
Phosphine * 1
Phosphonic acid * 1
Phosphonic acid 129828-36-0 1
Phosphonic acid 13598-36-2 3
Phosphonic acid (dimethylamino(methylene)) 29712-30-9 1
Phosphonic acid, [nitrilotris(methylene)]tris-, pentasodium salt 2235-43-0 1
Phosphoric acid 7664-38-2 7

Phosphoric acid ammonium salt * 1

Phosphoric acid, mixed decyl, octyl and ethyl esters 68412-60-2 3

Phosphorous acid 10294-56-1 1

Phthalic anhydride 85-44-9 2

Pine oil 8002-09-3 5

Plasticizer * 1

Poly(oxy-1,2-ethanediyl) 24938-91-8 1

Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched
(Nonylphenol ethoxylate) 127087-87-0 3

Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy 65545-80-4 1

Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-(hexyloxy)-, ammonium salt 63428-86-4 3

Poly(oxy-1,2-ethanediyl),a-(nonylphenyl)-w-hydroxy-, phosphate 51811-79-1 1

Poly-(oxy-1,2-ethanediyl)-alpha-undecyl-omega-hydroxy 34398-01-1 6

Poly(sodium-p-styrenesulfonate) 25704-18-1 1

Poly(vinyl alcohol) 25213-24-5 2

Polyacrylamides 9003-05-8 2

Polyacrylamides * 1

Polyacrylate * 1

Polyamine * 2

Polyanionic cellulose * 2

Polyepichlorohydrin, trimethylamine quaternized 51838-31-4 1

Polyetheramine 9046-10-0 3

Polyether-modified trisiloxane 27306-78-1 1

Polyethylene glycol 25322-68-3 20

Polyethylene glycol ester with tall oil fatty acid 9005-02-1 1

Polyethylene polyammonium salt 68603-67-8 2

Polyethylene-polypropylene glycol 9003-11-6 5

Poly lactide resin * 3

Polyoxyalkylenes * 1

Polyoxyethylene castor oil 61791-12-6 1

Polyposphoric acid, esters with triethanolamine, sodium salts 68131-72-6 1

Polypropylene glycol 25322-69-4 1

Polysaccharide * 20

Polyvinyl alcohol * 1

Polyvinyl alcohol 9002-89-5 2

Polyvinyl alcohol/polyvinylacetate copolymer * 1

Potassium acetate 127-08-2 1

Potassium carbonate 584-08-7 12

Potassium chloride 7447-40-7 29

Potassium formate 590-29-4 3

Potassium hydroxide 1310-58-3 25

Potassium iodide 7681-11-0 6

Potassium metaborate 13709-94-9 3

Potassium metaborate 16481-66-6 3

Potassium oxide 12136-45-7 1

Potassium pentaborate * 1

Potassium persulfate 7727-21-1 9

Propanol (Propyl alcohol) 71-23-8 18

Propanol, [2(2-methoxy-methylethoxy) methylethoxyl] 20324-33-8 1

Propargyl alcohol (2-propyn-1-ol) 107-19-7 46

Propylene carbonate (1,3-dioxolan-2-one, methyl-) 108-32-7 2

Propylene glycol (1,2-propanediol) 57-55-6 18

Propylene oxide 75-56-9 1

Propylene pentamer 15220-87-8 1

p-Xylene 106-42-3 1

Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivatives, chlorides 68909-18-2 9

Pyrogenic silica 112945-52-5 3

Quaternary amine compounds * 3

Quaternary amine compounds 61789-18-2 1

Quaternary ammonium compounds * 9

Quaternary ammonium compounds 19277-88-4 1

Quaternary ammonium compounds 68989-00-4 1

Quaternary ammonium compounds 8030-78-2 1

Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides 61789-77-3 2

Quaternary ammonium salts * 2

Quaternary compound * 1

Quaternary salt * 2

Quaternized alkyl nitrogenated compound 68391-11-7 2

Rafinates (petroleum), sorption process 64741-85-1 2

Residues (petroleum), catalytic reformer fractionator 64741-67-9 10

Resin 8050-09-7 2

Rutile 1317-80-2 2

Salt of phosphate ester * 3

Salt of phosphono-methylated diamine * 1

Salts of oxyalkylated fatty amines 68551-33-7 1

Secondary alcohol * 7

Silica (Silicon dioxide) 7631-86-9 47

Silica, amorphous * 3

Silica, amorphous precipitated 67762-90-7 1

Silicon carboxylate 681-84-5 1

Silicon dioxide (Fused silica) 60676-86-0 7

Silicone emulsion * 1

Sodium (C14-16) olefin sulfonate 68439-57-6 4

Sodium 2-ethylhexyl sulfate 126-92-1 1

Sodium acetate 127-09-3 6

Sodium acid pyrophosphate 7758-16-9 5

Sodium alkyl diphenyl oxide sulfonate 28519-02-0 1

Sodium aluminate 1302-42-7 1

Sodium aluminum phosphate 7785-88-8 1

Sodium bicarbonate (Sodium hydrogen carbonate) 144-55-8 10

Sodium bisulfite 7631-90-5 6

Sodium bromate 7789-38-0 10

Sodium bromide 7647-15-6 1

Sodium carbonate 497-19-8 14

Sodium chlorate 7775-09-9 1

Sodium chloride 7647-14-5 48

Sodium chlorite 7758-19-2 8

Sodium cocaminopropionate 68608-68-4 2

Sodium diacetate 126-96-5 2

Sodium erythorbate 6381-77-7 4

Sodium glycolate 2836-32-0 2

Sodium hydroxide (Caustic soda) 1310-73-2 80

Sodium hypochlorite 7681-52-9 14

Sodium lauryl-ether sulfate 68891-38-3 3

Sodium metabisulfite 7681-57-4 1

Sodium metaborate 7775-19-1 2

Sodium metaborate tetrahydrate 35585-58-1 6

Sodium metasilicate, anhydrous 6834-92-0 2

Sodium nitrite 7632-00-0 1

Sodium oxide (Na₂O) 1313-59-3 1

Sodium perborate 1113-47-9 1

Sodium perborate 7632-04-4 1

Sodium perborate tetrahydrate 10486-00-7 4

Sodium persulfate 7775-27-1 6

Sodium phosphate * 2

Sodium polyphosphate 68915-31-1 1

Sodium salicylate 54-21-7 1

Sodium silicate 1344-09-8 2

Sodium sulfate 7757-82-6 7

Sodium tetraborate 1330-43-4 7

Sodium tetraborate decahydrate 1303-96-4 10

Sodium thiosulfate 7772-98-7 10

Sodium thiosulfate pentahydrate 10102-17-7 3

Sodium trichloroacetate 650-51-1 1

Sodium tripolyphosphate 7758-29-4 2

Sodium xylene sulfonate 1300-72-7 3

Sodium zirconium lactate 174206-15-6 1

Solvent refined heavy naphthenic petroleum distillates 64741-96-4 1

Sorbitan monooleate 1338-43-8 1

Stabilized aqueous chlorine dioxide 10049-04-4 1

Stannous chloride 7772-99-8 1

Stannous chloride dihydrate 10025-69-1 6

Starch 9005-25-8 5

Steam cracked distillate, cyclodiene dimer, dicyclopentadiene polymer 68131-87-3 1

Steam-cracked petroleum distillates 64742-91-2 6

Straight run middle petroleum distillates 64741-44-2 5

Substituted alcohol * 2
Substituted alkene * 1
Substituted alkylamine * 2
Sucrose 57-50-1 1
Sulfamic acid 5329-14-6 6
Sulfate * 1
Sulfonate acids * 1
Sulfonate surfactants * 1
Sulfonic acid salts * 1
Sulfonic acids, petroleum 61789-85-3 1
Sulfur compound * 1
Sulfuric acid 7664-93-9 9
Sulfuric acid, monodecyl ester, sodium salt 142-87-0 2
Sulfuric acid, monoethyl ester, sodium salt 142-31-4 2
Surfactants * 13
Sweetened middle distillate 64741-86-2 1
Synthetic organic polymer 9051-89-2 2
Tall oil (Fatty acids) 61790-12-3 4
Tall oil, compound with diethanolamine 68092-28-4 1
Tallow soap * 2
Tar bases, quinoline derivatives, benzyl chloride-quaternized 72480-70-7 5
Tergitol 68439-51-0 1
Terpene hydrocarbon byproducts 68956-56-9 3
Terpenes * 1
Terpenes and terpenoids, sweet orange-oil 68647-72-3 2
Terpineol 8000-41-7 1
Tert-butyl hydroperoxide 75-91-2 6
Tetra-calcium-alumino-ferrite 12068-35-8 1
Tetraethylene glycol 112-60-7 1
Tetraethylenepentamine 112-57-2 2
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione (Dazomet) 533-74-4 13
Tetrakis (hydroxymethyl) phosphonium sulfate 55566-30-8 12
Tetramethyl ammonium chloride 75-57-0 14
Tetrasodium 1-hydroxyethylidene-1,1-diphosphonic acid 3794-83-0 1

Tetrasodium ethylenediaminetetraacetate 64-02-8 10

Thiocyanate sodium 540-72-7 1

Thioglycolic acid 68-11-1 6

Thiourea 62-56-6 9

Thiourea polymer 68527-49-1 3

Titanium complex * 1

Titanium oxide 13463-67-7 19

Titanium, isopropoxy (triethanolamine) 74665-17-1 2

Toluene 108-88-3 29

Treated ammonium chloride (with anti-caking agent a or b) 12125-02-9 1

Tributyl tetradecyl phosphonium chloride 81741-28-8 5

Tri-calcium silicate 12168-85-3 1

Tridecyl alcohol 112-70-9 1

Triethanolamine (2,2,2-nitrioltriethanol) 102-71-6 21

Triethanolamine polyphosphate ester 68131-71-5 3

Triethanolamine titanate 36673-16-2 1

Triethanolamine zirconate 101033-44-7 6

Triethanolamine zirconium chelate * 1

Triethyl citrate 77-93-0 1

Triethyl phosphate 78-40-0 1

Triethylene glycol 112-27-6 3

Triisopropanolamine 122-20-3 5

Trimethylammonium chloride 593-81-7 1

Trimethylbenzene 25551-13-7 5

Trimethyloctadecylammonium (1-octadecanaminium, N,N,N-trimethyl-, chloride) 112-03-8 6

Tris(hydroxymethyl)aminomethane 77-86-1 1

Trisodium ethylenediaminetetraacetate 150-38-9 1

Trisodium ethylenediaminetriacetate 19019-43-3 1

Trisodium nitrilotriacetate 18662-53-8 8

Trisodium nitrilotriacetate (Nitrilotriacetic acid, trisodium salt monohydrate) 5064-31-3 9

Trisodium ortho phosphate 7601-54-9 1

Trisodium phosphate dodecahydrate 10101-89-0 1

Ulexite 1319-33-1 1

Urea 57-13-6 3

Wall material * 1

Walnut hulls * 2

White mineral oil 8042-47-5 8

Xanthan gum 11138-66-2 6

Xylene 1330-20-7 44

Zinc chloride 7646-85-7 1

Zinc oxide 1314-13-2 2

Zirconium complex * 10

Zirconium dichloride oxide 7699-43-6 1

Zirconium oxide sulfate 62010-10-0 2

Zirconium sodium hydroxy lactate complex (Sodium zirconium lactate) 113184-20-6 2

* Components marked with an asterisk appeared on at least one MSDS without an identifying CAS number. The MSDSs in these cases marked the CAS as proprietary, noted that the CAS was not available, or left the CAS field blank. Components marked with an asterisk may be duplicative of other components on this list, but Committee staff have no way of identifying such duplicates without the identifying CAS number.

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