

# CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

### CHEMISTRY

**C11 ANIMAL AND VEGETABLE OILS, FATS, FATTY SUBSTANCES AND WAXES; FATTY ACIDS THEREFROM; DETERGENTS; CANDLES** ([edible oil or fat compositions A23](#))

**C11D DETERGENT COMPOSITIONS** ([preparations specially adapted for washing the hair A61Q 5/02, A61K 8/00; methods or apparatus for disinfection or sterilisation A61L; special washing compositions for cleaning semi-permeable membranes B01D 65/06](#)); **USE OF SINGLE SUBSTANCES AS DETERGENTS; SOAP OR SOAP-MAKING; RESIN SOAPS; RECOVERY OF GLYCEROL**

#### NOTE

Documents classified in groups [C11D 1/37](#), [C11D 1/645](#) - [C11D 1/655](#), [C11D 1/825](#) - [C11D 1/86](#), [C11D 1/94](#) - [C11D 1/945](#) and [C11D 10/00](#) - [C11D 10/047](#), are indexed using codes chosen from [C11D 1/00](#) - [C11D 1/92](#) to provide information on the individual ingredients on the compositions

#### WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

<a href="#">C11D 1/68</a>	covered by	<a href="#">C11D 3/2003</a>
<a href="#">C11D 1/70</a>	covered by	<a href="#">C11D 3/2003</a>
<a href="#">C11D 3/44</a>	covered by	<a href="#">C11D 3/43</a>
<a href="#">C11D 3/46</a>	covered by	<a href="#">C11D 3/2079</a> , <a href="#">C11D 9/48</a>
<a href="#">C11D 3/60</a>	covered by	<a href="#">C11D 3/00</a>
<a href="#">C11D 7/18</a>	covered by	<a href="#">C11D 3/39</a>
<a href="#">C11D 7/38</a>	covered by	<a href="#">C11D 3/39</a>
<a href="#">C11D 7/42</a>	covered by	<a href="#">C11D 3/386</a>
<a href="#">C11D 7/52</a>	covered by	<a href="#">C11D 7/50</a>
<a href="#">C11D 7/54</a>	covered by	<a href="#">C11D 3/395</a>
<a href="#">C11D 7/56</a>	covered by	<a href="#">C11D 3/395</a>
<a href="#">C11D 7/60</a>	covered by	<a href="#">C11D 7/00</a>
<a href="#">C11D 9/20</a>	covered by partly covered by	<a href="#">C11D 9/444</a>
<a href="#">C11D 9/50</a>	covered by	<a href="#">C11D 3/48</a>
<a href="#">C11D 9/60</a>	covered by	<a href="#">C11D 9/00</a>
<a href="#">C11D 10/02</a>	covered by	<a href="#">C11D 3/00</a>
<a href="#">C11D 10/06</a>	covered by	<a href="#">C11D 9/00</a>

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

**1/00 Detergent compositions based essentially on surface-active compounds; Use of these compounds as a detergent**

#### NOTE

In groups [C11D 1/02](#) - [C11D 1/94](#), in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

1/002 . {Surface-active compounds containing sulfur (SO<sub>3</sub> and SO<sub>4</sub>, [C11D 1/12](#); sulfonium compounds [C11D 1/60](#); sulfoxides [C11D 1/755](#); sulfobetaines [C11D 1/92](#))}

1/004 . {Surface-active compounds containing F}

1/006 . . {Surface-active compounds containing fluorine and phosphorus}

1/008 . {Polymeric surface-active agents ([see C11D 1/48](#), [C11D 1/662](#), [C11D 1/76](#))}

1/02 . Anionic compounds {([C11D 1/002](#), [C11D 1/004](#), [C11D 1/008](#) take precedence)}

1/04 . . Carboxylic acids or salts thereof {([see also C11D 9/005](#))}

1/06 . . . Ether- or thioether carboxylic acids

1/08 . . . Polycarboxylic acids containing no nitrogen or sulfur

1/10 . . . Amino-carboxylic acids; Imino-carboxylic acids; Fatty acid condensates thereof {([betaines C11D 1/90](#))}

- 1/12 . . Sulfonic acids or sulfuric acid esters; Salts thereof
- 1/123 . . . {derived from carboxylic acids, e.g. sulfosuccinates (from fatty acids [see C11D 1/28](#))}
- 1/126 . . . {Acyliethionates}
- 1/14 . . . derived from aliphatic hydrocarbons or mono-alcohols
- 1/143 . . . . {Sulfonic acid esters}
- 1/146 . . . . {Sulfuric acid esters}
- 1/16 . . . derived from divalent or polyvalent alcohols
- 1/18 . . . derived from amino alcohols
- 1/20 . . . . Fatty acid condensates
- 1/22 . . . derived from aromatic compounds
- 1/24 . . . . containing ester or ether groups directly attached to the nucleus
- 1/26 . . . derived from heterocyclic compounds
- 1/28 . . . Sulfonation products derived from fatty acids or their derivatives, e.g. esters, amides
- 1/29 . . . Sulfates of polyoxyalkylene ethers
- 1/30 . . . Sulfonation products derived from lignin
- 1/32 . . Protein hydrolysates; Fatty acid condensates thereof
- 1/34 . . Derivatives of acids of phosphorus
- 1/342 . . . {Phosphonates; Phosphinates; Phosphonites}
- 1/345 . . . {Phosphates; Phosphites}
- 1/347 . . . {Other P-containing anionic compounds ([C11D 1/006](#), [C11D 1/34](#) take precedence)}
- 1/36 . . of unknown constitution {, e.g. natural products}
- 1/37 . . Mixtures of compounds all of which are anionic
- 1/38 . Cationic compounds {([C11D 1/002](#), [C11D 1/004](#), [C11D 1/008](#) take precedence)}
- 1/385 . . {Cationic compounds containing P (phosphonium compounds [C11D 1/60](#))}
- 1/40 . . Monoamines or polyamines; Salts thereof
- 1/42 . . Amino alcohols or amino ethers
- 1/44 . . . Ethers of polyoxyalkylenes with amino alcohols; Condensation products of epoxyalkanes with amines
- 1/46 . . Esters of carboxylic acids with amino alcohols; Esters of amino carboxylic acids with alcohols
- 1/48 . . N-containing polycondensation products
- 1/50 . . Derivatives of urea, thiourea, cyanamide, guanidine or urethanes
- 1/52 . . Carboxylic amides, alkylolamides or imides {or their condensation products with alkylene oxides}
- WARNING**
- Until September 2008, when classification was made, group [C11D 3/07](#) took precedence over group [C11D 1/52](#)
- 1/521 . . . {Carboxylic amides ( $R^1\text{-CO-NR}^2\text{R}^3$ ), where  $R^1$ ,  $R^2$  and  $R^3$  are alkyl or alkenyl groups}
- 1/523 . . . {Carboxylic alkylolamides, or dialkylolamides, or hydroxycarboxylic amides ( $R^1\text{-CO-NR}^2\text{R}^3$ ), where  $R^1$ ,  $R^2$  or  $R^3$  contain one hydroxy group per alkyl group}
- 1/525 . . . {Carboxylic amides ( $R^1\text{-CO-NR}^2\text{R}^3$ ), where  $R^1$ ,  $R^2$  or  $R^3$  contain two or more hydroxy groups per alkyl group, e.g.  $R^3$  being a reducing sugar rest}
- 1/526 . . . {Carboxylic amides ( $R^1\text{-CO-NR}^2\text{R}^3$ ), where  $R^1$ ,  $R^2$  or  $R^3$  are polyalkoxylated}
- 1/528 . . . {Carboxylic amides ( $R^1\text{-CO-NR}^2\text{R}^3$ ), where at least one of the chains  $R^1$ ,  $R^2$  or  $R^3$  is interrupted by a functional group, e.g. a -NH-, -NR-, -CO-, or -CON- group ([ethers C11D 1/526](#))}
- 1/54 . . Hydrazides of carboxylic acids
- 1/56 . . containing nitro or nitroso groups
- 1/58 . . Heterocyclic compounds
- 1/60 . . Sulfonium or phosphonium compounds
- 1/62 . . Quaternary ammonium compounds
- 1/64 . . of unknown constitution {, e.g. natural products}
- 1/645 . . Mixtures of compounds all of which are cationic
- 1/65 . . Mixtures of anionic with cationic compounds
- 1/652 . . . {Mixtures of anionic compounds with carboxylic amides or alkylol amides}
- 1/655 . . . Mixtures of sulfonated products with alkylolamides of carboxylic acids
- WARNING**
- Until September 2008, when classification was made, group [C11D 3/066](#) took precedence over group [C11D 1/655](#)
- 1/66 . Non-ionic compounds {([C11D 1/002](#), [C11D 1/004](#), [C11D 1/008](#) take precedence)}
- 1/662 . . {Carbohydrates or derivatives}
- 1/665 . . {Arsine oxides}
- 1/667 . . {Neutral esters, e.g. sorbitan esters; [see also C11D 1/74](#) and [C11D 1/78](#)}
- 1/72 . . Ethers of polyoxyalkylene glycols
- WARNING**
- Until September 2008, when classification was made, group [C11D 3/075](#) took precedence over group [C11D 1/72](#)
- 1/721 . . . {End blocked ethers}
- 1/722 . . Ethers of polyoxyalkylene glycols having mixed oxyalkylene groups; {Polyalkoxylated fatty alcohols or polyalkoxylated alkylaryl alcohols with mixed oxyalkylene groups ([C11D 1/721](#) takes precedence)}
- 1/74 . . Carboxylates or sulfonates {esters} of polyoxyalkylene glycols
- 1/75 . . Amino oxides
- 1/755 . . Sulfoxides
- 1/76 . . Synthetic resins containing no nitrogen
- 1/78 . . Neutral esters of acids of phosphorus
- 1/79 . . Phosphine oxides
- 1/80 . . Derivatives of lignin containing no sulfo- or sulfate groups
- 1/82 . . Compounds containing silicon
- 1/825 . . Mixtures of compounds all of which are non-ionic
- 1/8255 . . . {containing a combination of compounds differently alcoxylised or with differently alkylated chains}
- 1/83 . . Mixtures of non-ionic with anionic compounds
- 1/8305 . . . {containing a combination of non-ionic compounds differently alcoxylised or with different alkylated chains}
- 1/831 . . . of sulfonates with ethers of polyoxyalkylenes without phosphates
- 1/835 . . Mixtures of non-ionic with cationic compounds

- 1/8355 . . . {containing a combination of non-ionic compounds differently alcoxylised or with different alkylated chains}
- 1/86 . {Ternary} Mixtures of anionic, cationic, and non-ionic compounds
- 1/88 . Ampholytes; Electroneutral compounds  
{(C11D 1/002, C11D 1/004, C11D 1/008 take precedence)}
- 1/883 . . {Aminimide (= ammonioamidates)}
- 1/886 . . {Ampholytes containing P}
- 1/90 . . Betaines
- 1/92 . . Sulfobetaines {Sulfitobetaines}
- 1/94 . . Mixtures with anionic, cationic, or non-ionic compounds
- 1/945 . . . {containing a combination of non-ionic compounds differently alcoxylised or with different alkylated chains}
- 3/00 Other compounding ingredients of detergent compositions covered in group C11D 1/00**
- NOTE**
- Documents classified in group C11D 3/0005 are also classified in other groups of subclass C11D according to the chemical nature of the compounds as such
- 3/0005 . {Other compounding ingredients characterised by their effect}
- 3/001 . . {Softening compositions}
- 3/0015 . . . {liquid}
- 3/0021 . . {Dye-stain or dye-transfer inhibiting compositions}
- 3/0026 . . {Low foaming or foam regulating compositions}
- 3/0031 . . {Carpet, upholstery, fur, and leather cleansers}
- 3/0036 . . {Soil deposition preventing compositions; Antiredeposition agents}
- 3/0042 . . {Reducing agents}
- 3/0047 . . {pH regulated compositions}
- 3/0052 . . {Gas evolving or heat producing compositions}
- 3/0057 . . {Oven-cleaning compositions}
- 3/0063 . . {Photo-activating compounds}
- 3/0068 . . {Deodorant compositions}
- 3/0073 . . {Anticorrosion compositions}
- 3/0078 . . {Compositions for cleaning contact lenses, spectacles, lenses (disinfecting contact lenses A61L 2/00; mechanical cleaning G02C 13/00)}
- NOTE**
- In groups C11D 3/02 - C11D 3/39, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.
- 3/0084 . . {Antioxidants; Free-radical scavengers}
- 3/0089 . . {Pearlescent compositions; Opacifying agents}
- 3/0094 . . {High foaming compositions}
- 3/02 . Inorganic compounds {; Elemental compounds}
- 3/04 . . Water-soluble compounds
- 3/042 . . . {Acids}
- 3/044 . . . {Hydroxides, bases}
- 3/046 . . . {Salts}
- 3/048 . . . . {Nitrates, nitrites}
- 3/06 . . . Phosphates, including polyphosphates
- WARNING**
- From October 2008 onwards, the following subgroups of C11D 3/06 are no longer used for the classification of new documents  
Groups C11D 3/065, C11D 3/066, C11D 3/07 and C11D 3/075
- 3/062 . . . . {Special methods concerning phosphates}
- 3/065 . . . . in admixture with sulfonated products
- 3/066 . . . . and with alkyloamides of carboxylic acids
- 3/07 . . . . in admixture with alkyloamides of carboxylic acids
- 3/075 . . . . in admixture with ethers of polyoxyalkylenes
- 3/08 . . . Silicates
- 3/10 . . . Carbonates {; Bicarbonates}
- 3/12 . . Water-insoluble compounds
- 3/1206 . . . {free metals, e.g. aluminium grit or flakes}
- 3/1213 . . . {Oxides, hydroxides, e.g. Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, CaO, Ca(OH)<sub>2</sub>}
- 3/122 . . . {Sulfur-containing, e.g. sulfates, sulfites, gypsum}
- 3/1226 . . . {Phosphorus containing}
- 3/1233 . . . {Carbonates, e.g. calcite, dolomite}
- 3/124 . . . {Silicon containing, e.g. silica, silex, quartz, glass beads}
- 3/1246 . . . . {Silicates, e.g. diatomaceous earth}
- 3/1253 . . . . . {Layer silicates, e.g. talcum, kaolin, clay, bentonite, smectite, montmorillonite, hectorite, attapulgite}
- 3/126 . . . . . {in solid compositions}
- 3/1266 . . . . . {in liquid compositions}
- 3/1273 . . . . . {Crystalline layered silicates of type NaMeSixO<sub>2x+1</sub>YH<sub>2</sub>O}
- 3/128 . . . . . {Aluminium silicates, e.g. zeolites (C11D 3/1253 takes precedence)}
- 3/1286 . . . . . {Stabilised aqueous aluminosilicate suspensions}
- 3/1293 . . . . . {Feldspar; Perlite; Pumice; Portland cement}
- 3/14 . . . Fillers; Abrasives; {Abrasive compositions; Suspending or absorbing agents not provided for in one single group of C11D 3/12; Specific features concerning abrasives, e.g. granulometry, mixtures (dyes, pigments C11D 3/40)}
- 3/16 . Organic compounds
- 3/162 . . {containing Si}
- 3/164 . . {containing a carbon-carbon triple bond}
- 3/166 . . {containing borium}
- 3/168 . . {Organometallic compounds or organometallic complexes}
- 3/18 . . Hydrocarbons {(C11D 3/164 takes precedence)}
- 3/181 . . . {linear}
- 3/182 . . . {branched}
- 3/184 . . . {unsaturated}
- 3/185 . . . {cyclic}
- 3/187 . . . {aromatic}
- 3/188 . . . {Terpenes}
- 3/20 . . containing oxygen {(C11D 3/162, C11D 3/164, C11D 3/166, C11D 3/168 take precedence)}

- 3/2003 . . . {Alcohols; Phenols}
- NOTES**
1. In this group glucerosol is not taken into account for applying the last place rule, when present in a mixture of alcohols or as an alternative from a series of alcohols
  2. In case of mixtures of alcohols or of a list of alternatives, documents are classified in [C11D 3/2003](#), [C11D 3/2006](#) or [C11D 3/2041](#) and indexed for the individual alternatives using codes chosen from [C11D 3/2006 - C11D 3/2065](#)
- 3/2006 . . . . {Monohydric alcohols}
- 3/201 . . . . . {linear}
- 3/2013 . . . . . {fatty or with at least 8 carbon atoms in the alkyl chain}
- 3/2017 . . . . . {branched}
- 3/202 . . . . . {fatty or with at least 8 carbon atoms in the alkyl chain}
- 3/2024 . . . . . {cyclic; polycyclic}
- 3/2027 . . . . . {unsaturated}
- 3/2031 . . . . . {fatty or with at least 8 carbon atoms in the alkenyl chain}
- 3/2034 . . . . . {aromatic}
- 3/2037 . . . . . {Terpenes}
- 3/2041 . . . . . {Dihydric alcohols}
- 3/2044 . . . . . {linear}
- 3/2048 . . . . . {branched}
- 3/2051 . . . . . {cyclic; polycyclic}
- 3/2055 . . . . . {unsaturated}
- 3/2058 . . . . . {aromatic}
- 3/2062 . . . . . {Terpene}
- 3/2065 . . . . . {Polyhydric alcohols}
- 3/2068 . . . {Ethers}
- 3/2072 . . . {Aldehydes-ketones}
- 3/2075 . . . {Carboxylic acids-salts thereof}
- 3/2079 . . . . {Monocarboxylic acids-salts thereof ([soaps C11D 10/00 - C11D 10/04](#))}
- 3/2082 . . . . {Polycarboxylic acids-salts thereof}
- 3/2086 . . . . {Hydroxy carboxylic acids-salts thereof}
- 3/2089 . . . . {Ether acids-salts thereof}
- 3/2093 . . . {Esters; Carbonates}
- 3/2096 . . . {Heterocyclic compounds}
- 3/22 . . . Carbohydrates or derivatives thereof ([graft polymers C11D 3/3788](#))
- 3/221 . . . . {Mono, di- or trisaccharides or derivatives thereof}
- 3/222 . . . . {Natural or synthetic polysaccharides, e.g. cellulose, starch, gum, alginic acid, cyclodextrin}
- 3/223 . . . . . {oxidised}
- 3/225 . . . . . {etherified, e.g. CMC}
- 3/226 . . . . . {esterified}
- 3/227 . . . . . {with nitrogen-containing groups}
- 3/228 . . . . . {with phosphorus- or sulfur-containing groups}
- 3/24 . . . containing halogen ([C11D 3/162](#), [C11D 3/164](#), [C11D 3/166](#), [C11D 3/168](#) take precedence)
- 3/245 . . . {containing fluorine}
- 3/26 . . . containing nitrogen ([C11D 3/162](#), [C11D 3/164](#), [C11D 3/166](#), [C11D 3/168](#) take precedence)
- 3/28 . . . Heterocyclic compounds containing nitrogen in the ring
- 3/30 . . . Amines; Substituted amines {; Quaternized amines}
- 3/32 . . . Amides; Substituted amides
- 3/323 . . . . {urea or derivatives thereof}
- 3/33 . . . Amino carboxylic acids
- 3/34 . . . containing sulfur ([C11D 3/162](#), [C11D 3/164](#), [C11D 3/166](#), [C11D 3/168](#) take precedence)
- NOTES**
1. In this group in the absence of an indication to the contrary sulfur containing compounds are classified in the last appropriate place ([see Note before group C11D 3/00](#)) and indexed for the individual functional groups using codes chosen from [C11D 3/3409 - C11D 3/349](#)
  2. In case of mixtures or a list of alternatives or Markush formulae each individual compound is classified and indexed according to Note 1.
- 3/3409 . . . {Alkyl -, alkenyl -, cycloalkyl - or terpene sulfates or sulfonates}
- 3/3418 . . . {Toluene -, xylene -, cumene -, benzene - or naphthalene sulfonates or sulfates}
- 3/3427 . . . {containing thiol, mercapto or sulfide groups, e.g. thioethers, mercaptals}
- 3/3436 . . . {containing disulfide groups}
- 3/3445 . . . {containing sulfinio groups, e.g. dimethyl sulfoxide}
- 3/3454 . . . {containing sulfone groups, e.g. vinyl sulfones}
- 3/3463 . . . {containing thio sulfate or sulfite groups}
- 3/3472 . . . {additionally containing -COOH groups or derivatives thereof}
- 3/3481 . . . {containing sulfur in a heterocyclic ring, e.g. sultones, sulfolanes}
- 3/349 . . . {additionally containing nitrogen atoms, e.g. nitro, nitroso, amino, imino, nitrilo, nitrile groups containing compounds or their derivatives, thio urea}
- 3/36 . . . containing phosphorus ([C11D 3/162](#), [C11D 3/164](#), [C11D 3/166](#), [C11D 3/168](#) take precedence)
- 3/361 . . . {Phosphonates, phosphinates, phosphonites}
- 3/362 . . . {Phosphates, phosphites}
- 3/364 . . . {containing nitrogen}
- 3/365 . . . {containing carboxyl groups}
- 3/367 . . . {containing halogen}
- 3/368 . . . . {containing fluorine}
- 3/37 . . . Polymers ([polymeric surface-active agents C11D 1/008](#); [carbohydrates C11D 3/22](#))
- 3/3703 . . . {Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds}
- 3/3707 . . . . {Polyethers, e.g. polyalkyleneoxides}
- 3/3711 . . . . {Polyacetal carboxylates}
- 3/3715 . . . . {Polyesters; Polycarbonates}
- 3/3719 . . . . {Polyamides; Polyimides}
- 3/3723 . . . . {Polyamines, polyalkyleneimines}
- 3/3726 . . . . {Polyurethanes}
- 3/373 . . . . {containing silicones}
- 3/3734 . . . . . {Cyclic silicones}
- 3/3738 . . . . . {Alkoxyated silicones}
- 3/3742 . . . . . {Nitrogen containing silicones}

- 3/3746 . . . {Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds}
- 3/3749 . . . . {Polyolefins; Halogenated polyolefins; Natural or synthetic rubber; Polyarylolefins; Halogenated polyarylolefins}
- 3/3753 . . . . {Polyvinylalcohol; Ethers or esters thereof}
- 3/3757 . . . . {(Co)polymerised carboxylic acids, -anhydrides, -esters in solid and liquid compositions}
- 3/3761 . . . . . {in solid compositions}
- 3/3765 . . . . . {in liquid compositions}
- 3/3769 . . . . {(Co)polymerised monomers containing nitrogen, e.g. carbonamides, nitriles, amines}
- 3/3773 . . . . . {in liquid compositions}
- 3/3776 . . . . . {Heterocyclic compounds, e.g. lactam}
- 3/378 . . . . {(Co)polymerised monomers containing sulfur, e.g. sulfonate}
- 3/3784 . . . . {(Co)polymerised monomers containing phosphorus}
- 3/3788 . . . {Graft polymers}
- 3/3792 . . . {Amine oxide containing polymers}
- 3/3796 . . . {Amphoteric polymers; Zwitterionic polymers}
- 3/38 . . . Products with no well-defined composition {, e.g. natural products}
- 3/381 . . . {Microorganisms}
- 3/382 . . . Vegetable products, e.g. soya meal, wood flour, sawdust
- 3/384 . . . Animal products
- 3/3845 . . . . {Antibodies}
- 3/386 . . . Preparations containing enzymes {, e.g. protease, amylase}
- 3/38609 . . . . {Protease or amylase in solid compositions only}
- 3/38618 . . . . {Protease or amylase in liquid compositions only}
- 3/38627 . . . . {containing lipase}
- 3/38636 . . . . {containing enzymes other than protease, amylase, lipase, cellulase, oxidase, reductase}
- 3/38645 . . . . {containing cellulase}
- 3/38654 . . . . {containing oxidase, reductase}
- 3/38663 . . . . {Stabilised liquid enzyme compositions (chemically modified or immobilised enzymes [C11D 3/386](#), [C12N](#))}
- 3/38672 . . . . {Granulated or coated enzymes}
- 3/38681 . . . . {Chemically modified or immobilised enzymes}
- 3/3869 . . . . {Enzyme enhancers or mediators}
- 3/39 . . . Organic or inorganic per-compounds
- 3/3902 . . {combined with specific additives}
- 3/3905 . . . {Bleach activators; Bleach catalysts}

**NOTES**

- In the absence of an indication to the contrary activators or catalysts are classified in the last appropriate place
- In case of mixtures or a list of alternatives documents are classified in [C11D 3/3905](#) or [C11D 3/3907](#) only and indexed for the individual alternatives using codes chosen from [C11D 3/3907](#) - [C11D 3/3932](#)

- 3/3907 . . . . {Organic compounds}

- 3/391 . . . . . {Oxygen-containing compounds}
- 3/3912 . . . . . {derived from saccharides}
- 3/3915 . . . . . {Sulfur-containing compounds}
- 3/3917 . . . . . {Nitrogen-containing compounds}
- 3/392 . . . . . {Heterocyclic compounds, e.g. cyclic imides or lactames}
- 3/3922 . . . . . {Cyanamides}
- 3/3925 . . . . . {Nitriles; Isocyanates; Quarternary ammonium nitriles}
- 3/3927 . . . . . {Quarternary ammonium compounds ([quarternary ammonium nitriles C11D 3/3925](#))}
- 3/393 . . . . . {Phosphorus, boron- or silicium-containing compounds}
- 3/3932 . . . . {Inorganic compounds or complexes}
- 3/3935 . . . . {granulated, coated or protected}
- 3/3937 . . . {Stabilising agents}
- 3/394 . . . . {Organic compounds}
- 3/3942 . . {Inorganic per-compounds ([C11D 3/3902](#) takes precedence)}
- 3/3945 . . {Organic per-compounds ([C11D 3/3902](#) takes precedence)}
- 3/3947 . . {Liquid compositions}
- 3/395 . . Bleaching agents {(per-compounds [C11D 3/39](#))}
- 3/3951 . . {combined with specific additives}
- 3/3953 . . {Inorganic bleaching agents ([C11D 3/3951](#) takes precedence)}
- 3/3955 . . {Organic bleaching agents ([C11D 3/3951](#) takes precedence)}
- 3/3956 . . {Liquid compositions}
- 3/3958 . . {combined with phosphates}
- 3/40 . . Dyes {; Pigments}
- 3/42 . . Brightening agents {; Blueing agents}
- 3/43 . . Solvents
- 3/48 . . Medical, disinfecting agents, disinfecting, antibacterial, germicidal or antimicrobial compositions
- 3/485 . . {Halophors, e.g. iodophors}
- 3/50 . . Perfumes
- 3/502 . . {Protected perfumes}
- 3/505 . . . {encapsulated or adsorbed on a carrier, e.g. zeolite or clay}
- 3/507 . . . {Compounds releasing perfumes by thermal or chemical activation}

**Non-surface-active compounds****7/00 Compositions of detergents based essentially on non-surface-active compounds****NOTE**

In the absence of an indication to the contrary, in groups [C11D 7/02](#) - [C11D 7/46](#) a compound is classified in the last appropriate place.

- 7/02 . . Inorganic compounds
- 7/04 . . . Water-soluble compounds
- 7/06 . . . Hydroxides
- 7/08 . . . Acids
- 7/10 . . . Salts
- 7/105 . . . . {Nitrates; Nitrites}
- 7/12 . . . . Carbonates {bicarbonates}
- 7/14 . . . . Silicates
- 7/16 . . . . Phosphates including polyphosphates

- 7/20 . . Water-insoluble oxides
  - 7/22 . Organic compounds
  - 7/24 . . Hydrocarbons
  - 7/241 . . . {linear}
  - 7/242 . . . {branched}
  - 7/244 . . . {unsaturated}
  - 7/245 . . . {cyclic}
  - 7/247 . . . {aromatic}
  - 7/248 . . . {Terpenes}
  - 7/26 . . containing oxygen
  - 7/261 . . . {Alcohols; Phenols}
  - 7/262 . . . . {fatty or with at least 8 carbon atoms in the alkyl or alkenyl chain}
  - 7/263 . . . {Ethers}
  - 7/264 . . . {Aldehydes; Ketones; Acetals; Ketals}
  - 7/265 . . . {Carboxylic acids; Salts thereof}
  - 7/266 . . . {Esters; Carbonates}
  - 7/267 . . . {Heterocyclic compounds}
  - 7/268 . . . {Carbohydrates; Derivatives thereof}
  - 7/28 . . containing halogen
  - 7/30 . . . Halogenated hydrocarbons
  - 7/32 . . containing nitrogen
  - 7/3209 . . . {Amines or imines with one to four nitrogen atoms; Quaternized amines}
  - 7/3218 . . . {Alkanolamines; Alkanolamines}
  - 7/3227 . . . {Ethers thereof}
  - 7/3236 . . . {Aldehydes, ketones, acetals, ketals thereof}
  - 7/3245 . . . {Aminoacids}
  - 7/3254 . . . {Esters or carbonates thereof}
  - 7/3263 . . . {Amides; Imides}
  - 7/3272 . . . {Urea; Guanidine; Derivatives thereof}
  - 7/3281 . . . {Heterocyclic compounds}
  - 7/329 . . . {Carbohydrate, derivatives thereof}
  - 7/34 . . containing sulfur
  - 7/36 . . containing phosphorus
  - 7/40 . . Products in which the composition is not well defined
  - 7/44 . . . Vegetable products
  - 7/46 . . . Animal products
  - 7/50 . Solvents
  - 7/5004 . . {Organic solvents}
- NOTE**
- In this group, classification is made in the first appropriate place
- 7/5009 . . . {containing phosphorus, sulfur or silicon, e.g. dimethylsulfoxide}
  - 7/5013 . . . {containing nitrogen}
  - 7/5018 . . . {Halogenated solvents}
  - 7/5022 . . . {containing oxygen}
  - 7/5027 . . . {Hydrocarbons}
  - 7/5031 . . {Azeotropic mixtures of non-halogenated solvents}
  - 7/5036 . . {Azeotropic mixtures containing halogenated solvents}
  - 7/504 . . . {all solvents being halogenated hydrocarbons}
  - 7/5045 . . . . {Mixtures of (hydro)chlorofluorocarbons}
  - 7/505 . . . . {Mixtures of (hydro)fluorocarbons}
  - 7/5054 . . . . {Mixtures of (hydro)chlorofluorocarbons and (hydro) fluorocarbons}
  - 7/5059 . . . . {Mixtures containing (hydro)chlorocarbons}

- 7/5063 . . . . {Halogenated hydrocarbons containing heteroatoms, e.g. fluoro alcohols}
- 7/5068 . . . {Mixtures of halogenated and non-halogenated solvents}
- 7/5072 . . . . {Mixtures of only hydrocarbons}
- 7/5077 . . . . {Mixtures of only oxygen-containing solvents}
- 7/5081 . . . . . {the oxygen-containing solvents being alcohols only}
- 7/5086 . . . . . {the oxygen-containing solvents being different from alcohols, e.g. mixtures of water and ethers}
- 7/509 . . . . . {Mixtures of hydrocarbons and oxygen-containing solvents}
- 7/5095 . . . . . {Mixtures including solvents containing other heteroatoms than oxygen, e.g. nitriles, amides, nitroalkanes, siloxanes, thioethers}

**Soap detergents**

- 9/00**    **Compositions of detergents based essentially on soap (compositions containing resin soap [C11D 15/04](#))**
  - 9/002 . {Non alkali-metal soaps}
  - 9/005 . {Synthetic soaps ([see also C11D 1/04](#))}
  - 9/007 . {Soaps or soap mixtures with well defined chain length}
  - 9/02 . on alkali or ammonium soaps
  - 9/04 . containing compounding ingredients other than soaps
  - 9/045 . . {containing substances which prevent the deterioration of soaps, e.g. light or heat stabilisers, antioxidants}
- NOTE**
- In groups [C11D 9/06](#) - [C11D 9/42](#), in the absence of an indication to the contrary, a compound is classified in the last appropriate place.
- 9/06 . . Inorganic compounds
  - 9/08 . . . Water-soluble compounds
  - 9/10 . . . . Salts
  - 9/12 . . . . . Carbonates
  - 9/14 . . . . . Phosphates; Polyphosphates
  - 9/16 . . . . . Borates
  - 9/18 . . . Water-insoluble compounds
  - 9/20 . . . . Fillers, abrasives
  - 9/22 . . Organic compounds {, e.g. vitamins}
  - 9/225 . . . {Polymers}
  - 9/24 . . . Hydrocarbons {([C11D 9/225](#) takes precedence)}
  - 9/26 . . . containing oxygen {([C11D 9/225](#) takes precedence)}
  - 9/262 . . . . {containing carbohydrates}
  - 9/265 . . . . {containing glycerol}
  - 9/267 . . . . {containing free fatty acids ([see also C11D 9/48](#))}
  - 9/28 . . . containing halogen {([C11D 9/225](#) takes precedence)}
  - 9/30 . . . containing nitrogen {([C11D 9/225](#) takes precedence)}
  - 9/32 . . . containing sulfur {([C11D 9/225](#) takes precedence)}

- 9/34 . . . containing phosphorus {[C11D 9/225 takes precedence](#)}
- 9/36 . . . containing silicon {[C11D 9/225 takes precedence](#)}
- 9/38 . . . Products in which the composition is not well defined
- 9/40 . . . Proteins
- 9/42 . . Per-compounds
- 9/44 . . Perfumes; Colouring materials; Brightening agents {[Bleaching agents](#)}
- 9/442 . . . {[Perfumes](#)}
- 9/444 . . . {[Dyes; Pigments](#)}
- 9/446 . . . {[Bleaching agents](#)}
- 9/448 . . . {[Brightening agents](#)}
- 9/48 . . Superfating agents
- 10/00 Compositions of detergents, not provided for by one single preceding group**
- 10/04 . based on mixtures of surface-active non-soap compounds and soap
- 10/042 . . {based on anionic surface-active compounds and soap}
- 10/045 . . {based on non-ionic surface-active compounds and soap}
- 10/047 . . {based on cationic surface-active compounds and soap}
- 11/00 Special methods for preparing compositions containing mixtures of detergents {(in the form of blocks, bars, tablets [C11D 17/0047](#)); Methods for using cleaning compositions}**
- 11/0005 . {[Special cleaning and washing methods](#)}
- 11/0011 . . {characterised by the objects to be cleaned}
- 11/0017 . . . {"Soft" surfaces, e.g. textiles}
- 11/0023 . . . {"Hard" surfaces}
- 11/0029 . . . . {[Metals \(degreasing metals \[C23G 5/00\]\(#\)\)](#)}
- 11/0035 . . . . {[Glass; Plastics](#)}
- 11/0041 . . . . {[Industrial or commercial equipment, e.g. reactors, tubes, engines \(\[C11D 11/0047 takes precedence\]\(#\)\)](#)}
- 11/0047 . . . . {[Electronic devices, e.g. PCBs, semiconductors](#)}
- 11/0052 . . . . {[Mineral surfaces, e.g. stones, frescoes, plaster, walls, concrete](#)}
- 11/0058 . . {involving the application of foam or a temporary coating on the surface to be cleaned}
- 11/0064 . . {[Multi-step methods](#)}
- 11/007 . . {involving applying energy, e.g. irradiation}
- 11/0076 . . {[Regeneration of cleaning solutions](#)}
- 11/0082 . {one or more of the detergent ingredients being in a liquefied state, e.g. slurry, paste, melt, and the process resulting in solid detergent particles such as granules, powders or beads}
- 11/0088 . . {the liquefied ingredients being sprayed or adsorbed onto solid particles}
- 11/0094 . {[Process for making liquid detergent compositions, e.g. slurries, pastes, gels](#)}
- 11/02 . Preparation in the form of powder by spray drying
- 11/04 . by chemical means, e.g. by sulfonating in the presence of other compounding ingredients followed by neutralising

**Soap or soap-making; Resin soaps**

- 13/00 Making of soap or soap solutions in general; Apparatus therefor (resin soap [C11D 15/00](#))**
- 13/02 . Boiling soap; Refining
- 13/04 . . Continuous methods therefor
- 13/06 . . Bleaching of soap or soap solutions
- 13/08 . . Colouring, {e.g. striated bars, striped bars} or perfuming
- 13/10 . Mixing; Kneading
- 13/12 . Cooling ([C11D 13/14 takes precedence](#))
- 13/14 . Shaping
- 13/16 . . in moulds
- 13/18 . . by extrusion or pressing
- 13/20 . . in the form of small particles, e.g. powder, flakes ([by slicing \[C11D 13/24\]\(#\)](#))
- 13/22 . Cutting
- 13/24 . . Slicing soap on the cooling drum
- 13/26 . Drying ([drying ovens \[F27\]\(#\)](#))
- 13/28 . Embossing; Polishing
- 13/30 . Recovery of soap, e.g. from spent solutions
- 15/00 Manufacture of resin soap or soaps derived from naphthenic acids; Compositions**
- 15/02 . Apparatus therefor
- 15/04 . Compositions containing resin soap or soap derived from naphthenic acids
- 17/00 Detergent materials characterised by their shape or physical properties {(soaps [C11D 9/00](#), shaping soap [C11D 13/00](#))}**
- 17/0004 . {[Non aqueous liquid compositions comprising insoluble particles](#)}
- 17/0008 . {[aqueous liquid non soap compositions \(\[C11D 3/0015\]\(#\), \[C11D 3/3947\]\(#\), \[C11D 3/3956 take precedence\]\(#\)\)](#)}
- WARNING**
- This subgroup is not longer used for the classification of new documents from 01 November 2011
- 17/0013 . . {[Liquid compositions with insoluble particles in suspension \(\[C11D 17/0021\]\(#\), \[C11D 17/0026\]\(#\), \[C11D 17/003 take precedence\]\(#\)\)](#)}
- 17/0017 . . {[Multi-phase liquid compositions](#)}
- 17/0021 . . . {[Aqueous microemulsions](#)}
- 17/0026 . . {[Structured liquid compositions, e.g. liquid crystalline phases, network containing non-Newtonian phase, \(\[thixotropic solutions \\[C11D 17/003\\]\\(#\\)\]\(#\)\)](#)}
- 17/003 . . {[Colloidal solutions, e.g. gels; Thixotropic solutions; Pastes](#)}
- 17/0034 . {[Fixed on a solid conventional detergent ingredient](#)}
- 17/0039 . {[Coated compositions or coated components in the compositions, \(micro\)capsules](#)}
- 17/0043 . {[For use with aerosol devices](#)}
- 17/0047 . {[Detergents in the form of bars or tablets](#)}
- 17/0052 . . {[Cast detergent compositions](#)}
- 17/0056 . . {[Lavatory cleansing blocks](#)}
- 17/006 . . {[containing mainly surfactants, but no builders, e.g. syndet bar](#)}
- 17/0065 . . {[Solid detergents containing builders \(\[C11D 17/06 takes precedence\]\(#\)\)](#)}
- 17/0069 . . . {[Laundry bars](#)}

- 17/0073 . . . {Tablets}
- 17/0078 . . . . {Multilayered tablets}
- 17/0082 . . . . {Coated tablets}
- 17/0086 . . . . {Laundry tablets}
- 17/0091 . . . . {Dishwashing tablets}
- 17/0095 . {Solid transparent soaps or detergents}
- 17/02 . Floating bodies of detergents {or of soaps}
- 17/04 . combined with or containing other objects
- 17/041 . . {Compositions releasably affixed on a substrate  
or incorporated into a dispensing means}
- 17/042 . . . {Water soluble or water disintegrable  
containers or substrates containing cleaning  
compositions or additives for cleaning  
compositions ([packaging of disintegrable,  
dissolvable or edible materials B65D 65/46](#))}
- 17/043 . . . . {Liquid or thixotropic (gel) compositions}
- 17/044 . . . . {Solid compositions}
- 17/045 . . . . {Multi-compartment}
- 17/046 . . . {Insoluble free body dispenser}
- 17/047 . . . {Arrangements specially adapted for dry  
cleaning or laundry dryer related applications}
- 17/048 . . {Soap or detergent bars or cakes with an inner  
core consisting of insoluble material ([floating  
soaps C11D 17/02](#))}
- 17/049 . . {Cleaning or scouring pads; Wipes}
- 17/06 . Powder; Flakes; Free-flowing mixtures; Sheets
- 17/065 . . {High-density particulate detergent  
compositions}
- 17/08 . Liquid soap, {e.g. for dispensers}; capsuled
- 19/00** **Recovery of glycerol from a saponification liquor**  
([refining glycerol C07C 31/22](#))