

ECLA**EUROPEAN CLASSIFICATION****C11D**

DETERGENT COMPOSITIONS (preparations specially adapted for washing the hair [A61K7/075](#); methods or apparatus for disinfection or sterilisation [A61L](#); special washing compositions for cleaning semi-permeable membranes [B01D65/06](#)); **USE OF SINGLE SUBSTANCES AS DETERGENTS; SOAP OR SOAP-MAKING; RESIN SOAPS; RECOVERY OF GLYCEROL** [[C9908](#)]

[N: WARNING

The following IPC groups are not used in the internal ECLA classification system. Subject matter covered by these groups is classified in the following ECLA groups:

C11D1/68	covered by	C11D3/20B
C11D1/70	covered by	C11D3/20B
C11D3/44	covered by	C11D3/43
C11D3/46	covered by	C11D3/20E1 , C11D9/48
C11D3/60	covered by	C11D3/00
C11D7/18	covered by	C11D3/39
C11D7/38	covered by	C11D3/39
C11D7/42	covered by	C11D3/386
C11D7/52	covered by	C11D7/50
C11D7/54	covered by	C11D3/395
C11D7/56	covered by	C11D3/395
C11D7/60	covered by	C11D7/00
C11D9/20	covered by	partly covered by C11D9/44D
C11D9/50	covered by	C11D3/48
C11D9/60	covered by	C11D9/00
C11D10/02	covered by	C11D3/00
C11D10/06	covered by	C11D9/00

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[N: Note

Documents classified in groups [C11D1/37](#), [C11D1/645](#) to [C11D1/655](#), [C11D1/825](#) to [C11D1/86](#), [C11D1/94](#) to [C11D1/94B](#) and [C11D10/00](#) to [C11D10/06](#), are indexed using codes chosen from [M11D1/00](#) to [M11D1/92](#) to provide information on the individual ingredients on the compositions

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C11D1/00

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

Note

In groups [C11D1/02](#) to [C11D1/94](#), in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

C11D1/00B

- [N: Surface-active compounds containing sulfur (SO₃ and SO₄, [C11D1/12](#); sulfonium compounds [C11D1/60](#); sulfoxides [C11D1/755](#); sulfobetaines [C11D1/92](#))]

C11D1/00C

- [N: Surface-active compounds containing F]

C11D1/00C2

- [N: Surface-active compounds containing fluorine and phosphorus]

C11D1/00D

- [N: Polymeric surface-active agents (see [C11D1/48](#), [C11D1/66B](#), [C11D1/76](#))]

C11D1/02

- Anionic compounds [N: ([C11D1/00B](#), [C11D1/00C](#), [C11D1/00D](#) take precedence)]

- C11D1/04 . . Carboxylic acids or salts thereof [N: see also [C11D9/00C](#)]
- C11D1/06 . . . Ether- or thio-ether carboxylic acids
- C11D1/08 . . . Polycarboxylic acids containing no nitrogen or sulfur
- C11D1/10 . . . Amino-carboxylic acids; Imino-carboxylic acids; Fatty acid condensates thereof
[N: (betaines [C11D1/90](#))]
- C11D1/12 . . Sulfonic acids or sulfuric acid esters; Salts thereof [[C0810](#)]
- C11D1/12B . . . [N: derived from carboxylic acids, e.g. sulfosuccinates (from fatty acids see
[C11D1/28](#))]
- C11D1/12D . . . [N: Acylisethionates]
- C11D1/14 . . . derived from aliphatic hydrocarbons or mono-alcohols
- C11D1/14B [N: Sulfonic acid esters] [[N9601](#)]
- C11D1/14D [N: Sulfuric acid esters] [[N9601](#)]
- C11D1/16 . . . derived from divalent or polyvalent alcohols
- C11D1/18 . . . derived from amino alcohols
- C11D1/20 Fatty acid condensates
- C11D1/22 . . . derived from aromatic compounds
- C11D1/24 containing ester or ether groups directly attached to the nucleus
- C11D1/26 . . . derived from heterocyclic compounds
- C11D1/28 . . . Sulfonation products derived from fatty acids or their derivatives, e.g. esters,
amides
- C11D1/29 . . . Sulfates of polyoxyalkylene ethers
- C11D1/30 . . . Sulfonation products derived from lignin
- C11D1/32 . . Protein hydrolysates; Fatty acid condensates thereof
- C11D1/34 . . Derivatives of acids of phosphorus
- C11D1/34B . . . [N: Phosphonates; Phosphinates; Phosphonites]
- C11D1/34C . . . [N: Phosphates; Phosphites]
- C11D1/34E . . . [N: Other P-containing anionic compounds ([C11D1/00C2](#), [C11D1/34](#) take
precedence)]
- C11D1/36 . . of unknown constitution [N: e.g. natural products]
- C11D1/37 . . Mixtures of compounds all of which are anionic

- C11D1/38 . Cationic compounds [N: ([C11D1/00B](#), [C11D1/00C](#), [C11D1/00D](#) take precedence)]
- C11D1/38B . . [N: Cationic compounds containing P (phosphonium compounds [C11D1/60](#))]
- C11D1/40 . . Monoamines or polyamines; Salts thereof
- C11D1/42 . . Amino alcohols or amino ethers
- C11D1/44 . . . Ethers of polyoxyalkylenes with amino alcohols; Condensation products of
epoxyalkanes with amines
- C11D1/46 . . Esters of carboxylic acids with amino alcohols; Esters of amino carboxylic acids
with alcohols
- C11D1/48 . . N-containing polycondensation products
- C11D1/50 . . Derivatives of urea, thiourea, cyanamide, guanidine or urethanes
- C11D1/52 . . Carboxylic amides, alkylolamides or imides [N: or their condensation products with
alkylene oxides] [[C0810](#)]

[N: **WARNING**[[N0810](#)]

Until September 2008, when classification was made, group [C11D3/07](#) took precedence over group [C11D1/52](#)
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- C11D1/52B . . . [N: Carboxylic amides (R1-CO-NR2R3), where R1, R2 and R3 are alkyl or alkenyl groups]
- C11D1/52D . . . [N: Carboxylic alkylolamides, or dialkylolamides, or hydroxycarboxylic amides (R1-CO-NR2R3), where R1, R2 or R3 contain one hydroxy group per alkyl group]
- C11D1/52H . . . [N: Carboxylic amides (R1-CO-NR2R3), where R1, R2 or R3 contain two or more hydroxy groups per alkyl group, e.g. R3 being a reducing sugar rest]
- C11D1/52K . . . [N: Carboxylic amides (R1-CO-NR2R3), where R1, R2 or R3 are polyalkoxylated]
- C11D1/52M . . . [N: Carboxylic amides (R1-CO-NR2R3), where at least one of the chains R1, R2 or R3 is interrupted by a functional group, e.g. a -NH-, -NR-, -CO-, or -CON-group (ethers [C11D1/52K](#))]
- C11D1/54 . . . Hydrazides of carboxylic acids
- C11D1/56 . . . containing nitro or nitroso groups
- C11D1/58 . . . Heterocyclic compounds
- C11D1/60 . . . Sulfonium or phosphonium compounds
- C11D1/62 . . . Quaternary ammonium compounds
- C11D1/64 . . . of unknown constitution [N: e.g. natural products]
- C11D1/645 . . . Mixtures of compounds all of which are cationic
- C11D1/65 . . . Mixtures of anionic with cationic compounds
- C11D1/65B . . . [N: Mixtures of anionic compounds with carboxylic amides or alkylol amides] [N9506]
- C11D1/655 . . . Mixtures of sulfonated products with alkylolamides of carboxylic acids [C0810]

[N: **WARNING**[N0810]

Until September 2008, when classification was made, group [C11D3/066](#) took precedence over group [C11D1/655](#)
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- C11D1/66 . . . Non-ionic compounds [N: ([C11D1/00B](#), [C11D1/00C](#), [C11D1/00D](#) take precedence)]
- C11D1/66B . . . [N: Carbohydrates or derivatives]
- C11D1/66D . . . [N: Arsine oxides]
- C11D1/66E . . . [N: Neutral esters e.g. sorbitan esters; see also [C11D1/74](#) and [C11D1/78](#)]
- C11D1/72 . . . Ethers of polyoxyalkylene glycols [C0810]

[N: **WARNING**[N0810]

Until September 2008, when classification was made, group [C11D3/075](#) took precedence over group [C11D1/72](#)
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- C11D1/72B . . . [N: End blocked ethers] [C0810]
- C11D1/722 . . . Ethers of polyoxyalkylene glycols having mixed oxyalkylene groups; [N: Polyalkoxylated fatty alcohols or polyalkoxylated alkylaryl alcohols with mixed oxyalkylene groups ([C11D1/72B](#) takes precedence)] [C0810]
- C11D1/74 . . . Carboxylates or sulfonates [N: esters] of polyoxyalkylene glycols
- C11D1/75 . . . Amino oxides

- C11D1/755 . . Sulfoxides
- C11D1/76 . . Synthetic resins containing no nitrogen
- C11D1/78 . . Neutral esters of acids of phosphorus
- C11D1/79 . . Phosphine oxides
- C11D1/80 . . Derivatives of lignin containing no sulfo- or sulfate groups
- C11D1/82 . . Compounds containing silicon
- C11D1/825 . . Mixtures of compounds all of which are non-ionic
- C11D1/825B . . . [N: containing a combination of compounds differently alcoxylised or with differently alkylated chains]
- C11D1/83 . . Mixtures of non-ionic with anionic compounds
- C11D1/83B . . . [N: containing a combination of non-ionic compounds differently alcoxylised or with different alkylated chains]
- C11D1/831 . . . of sulfonates with ethers of polyoxyalkylenes without phosphates
- C11D1/835 . . Mixtures of non-ionic with cationic compounds
- C11D1/835B . . . [N: containing a combination of non-ionic compounds differently alcoxylised or with different alkylated chains]

- C11D1/86 . [N: Ternary] Mixtures of anionic, cationic, and non-ionic compounds

- C11D1/88 . Ampholytes; Electroneutral compounds [N: ([C11D1/00B](#), [C11D1/00C](#), [C11D1/00D](#) take precedence)]
- C11D1/88B . . [N: Aminimide (= ammonioamidates)]
- C11D1/88C . . [N: Ampholytes containing P]
- C11D1/90 . . Betaines
- C11D1/92 . . Sulfobetaines [N: Sulfitobetaines]
- C11D1/94 . . Mixtures with anionic, cationic, or non-ionic compounds
- C11D1/94B . . . [N: containing a combination of non-ionic compounds differently alcoxylised or with different alkylated chains]

C11D3/00 **Other compounding ingredients of detergent compositions covered in group [C11D1/00](#)**

[N: **Note**

Documents classified in group [C11D3/00B](#) are also classified in other groups of subclass [C11D](#) according to the chemical nature of the compounds as such

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- C11D3/00B . [N: Other compounding ingredients characterised by their effect]
- C11D3/00B3 . . [N: Softening compositions]
- C11D3/00B3L . . . [N: liquid] [C9501]
- C11D3/00B4 . . [N: Dye-stain or dye-transfer inhibiting compositions] [C0810]
- C11D3/00B5 . . [N: Low foaming or foam regulating compositions]
- C11D3/00B6 . . [N: Carpet, upholstery, fur, and leather cleansers]
- C11D3/00B7 . . [N: Soil deposition preventing compositions; Antiredeposition agents] [C0810]
- C11D3/00B8 . . [N: Reducing agents]
- C11D3/00B9 . . [N: pH regulated compositions]

- C11D3/00B10 . . [N: Gas evolving or heat producing compositions]
- C11D3/00B11 . . [N: Oven-cleaning compositions]
- C11D3/00B12 . . [N: Photo-activating compounds]
- C11D3/00B14 . . [N: Deodorant compositions]
- C11D3/00B15 . . [N: Anticorrosion compositions]
- C11D3/00B16 . . [N: Compositions for cleaning contact lenses, spectacles, lenses (disinfecting contact lenses [A61L2/00](#); mechanical cleaning [G02C13/00](#))]

Note

In groups [C11D3/02](#) to [C11D3/39](#), in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

- C11D3/00B17 . . [N: Antioxidants; Free-radical scavengers] [N0810]
- C11D3/00B18 . . [N: Pearlescent compositions; Opacifying agents] [N0810]
- C11D3/00B19 . . [N: High foaming compositions] [N0810]

- C11D3/02 . Inorganic compounds; [N: Elemental compounds]
- C11D3/04 . . Water-soluble compounds [N1109]
- C11D3/04A . . . [N: Acids] [N1109]
- C11D3/04H . . . [N: Hydroxides, bases] [N1109]
- C11D3/04S . . . [N: Salts] [N1109]
- C11D3/04S2 [N: Nitrates, nitrites] [N1109]
- C11D3/06 . . . Phosphates, including polyphosphates

[N: **WARNING**] [N0810]

From October 2008 onwards, the following subgroups of [C11D3/06](#) are no longer used for the classification of new documents Groups [C11D3/065](#), [C11D3/066](#), [C11D3/07](#) and [C11D3/075](#)]

- C11D3/06B [N: Special methods concerning phosphates]
- C11D3/065 in admixture with sulfonated products
- C11D3/066 and with alkyloamides of carboxylic acids
- C11D3/07 in admixture with alkyloamides of carboxylic acids
- C11D3/075 in admixture with ethers of polyoxyalkylenes
- C11D3/08 . . . Silicates
- C11D3/10 . . . Carbonates; [N: Bicarbonates]
- C11D3/12 . . Water-insoluble compounds
- C11D3/12B . . . [N: free metals, e.g. aluminium grit or flakes]
- C11D3/12C . . . [N: Oxides, hydroxides, e.g. Al₂O₃, TiO₂, CaO, Ca(OH)₂]
- C11D3/12D . . . [N: Sulfur-containing, e.g. sulfates, sulfites, gypsum]
- C11D3/12E . . . [N: Phosphorus containing]
- C11D3/12F . . . [N: Carbonates, e.g. calcite, dolomite]
- C11D3/12G . . . [N: Silicon containing, e.g. silica, silex, quartz, glass beads]
- C11D3/12G2 [N: Silicates, e.g. diatomaceous earth]
- C11D3/12G2D [N: Layer silicates, e.g. talcum, kaolin, clay, bentonite, smectite, montmorillonite, hectorite, attapulgite]
- C11D3/12G2D1 [N: in solid compositions] [N9501]

C11D3/12G2D3 [N: in liquid compositions] [N9501]
 C11D3/12G2D4 [N: Crystalline layered silicates of type NaMeSixO2x+1YH2O]
 C11D3/12G2F [N: Aluminium silicates, e.g. zeolites ([C11D3/12G2D](#) takes precedence)]
 C11D3/12G2F1 [N: Stabilised aqueous aluminosilicate suspensions]
 C11D3/12G2F2 [N: Feldspar; Perlite; Pumice; Portland cement]
 C11D3/14 Fillers; Abrasives; [N: Abrasive compositions; Suspending or absorbing agents not provided for in one single group of [C11D3/12](#); Specific features concerning abrasives, e.g. granulometry, mixtures ([dyes, pigments C11D3/40](#))] [C9511]

C11D3/16 Organic compounds
 C11D3/16B [N: containing Si]
 C11D3/16D [N: containing a carbon-carbon triple bond]
 C11D3/16E [N: containing borium]
 C11D3/16K [N: Organometallic compounds or orgometallic complexes] [N9704]
 C11D3/18 Hydrocarbons [N: ([C11D3/16D](#) takes precedence)]
 C11D3/18A [N: linear] [N0403]
 C11D3/18B [N: branched] [N0403]
 C11D3/18D [N: unsaturated] [N0403]
 C11D3/18K [N: cyclic] [N0403]
 C11D3/18R [N: aromatic] [N0403]
 C11D3/18T [N: Terpenes] [N0403]
 C11D3/20 containing oxygen [N: ([C11D3/16B](#), [C11D3/16D](#), [C11D3/16E](#), [C11D3/16K](#) take precedence)] [C0810]
 C11D3/20B [N: Alcohols; Phenols]

[N: **Notes**

1. In this group glucrol 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 [C11D3/20B](#), [C11D3/20B1](#) or [C11D3/20B2](#) and indexed for the individual alternatives using codes chosen from [M11D3/20B1](#) to [M11D3/20B3](#)

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C11D3/20B1 [N: Monohydric alcohols] [N9612]
 C11D3/20B1A [N: linear] [N9612]
 C11D3/20B1A2 [N: fatty or with at least 8 carbon atoms in the alkyl chain] [N0912]
 C11D3/20B1B [N: branched] [N9612]
 C11D3/20B1B2 [N: fatty or with at least 8 carbon atoms in the alkyl chain] [N0912]
 C11D3/20B1C [N: cyclic; polycyclic] [N9612]
 C11D3/20B1D [N: unsaturated] [N9612]
 C11D3/20B1D2 [N: fatty or with at least 8 carbon atoms in the alkenyl chain] [N0912]
 C11D3/20B1R [N: aromatic] [N9612]
 C11D3/20B1T [N: Terpenes] [N9612]

C11D3/20B2	. . . . .	[N: Dihydric alcohols] [N9612]
C11D3/20B2A	. . . . .	[N: linear] [N9612]
C11D3/20B2B	. . . . .	[N: branched] [N9612]
C11D3/20B2C	. . . . .	[N: cyclic; polycyclic] [N9612]
C11D3/20B2D	. . . . .	[N: unsaturated] [N9612]
C11D3/20B2R	. . . . .	[N: aromatic] [N9612]
C11D3/20B2T	. . . . .	[N: Terpene] [N9612]
C11D3/20B3	. . . . .	[N: Polyhydric alcohols] [N9612]
C11D3/20C	. . . . .	[N: Ethers]
C11D3/20D	. . . . .	[N: Aldehydes-ketones]
C11D3/20E	. . . . .	[N: Carboxylic acids-salts thereof]
C11D3/20E1	. . . . .	[N: Monocarboxylic acids-salts thereof (soaps C11D10/06 to C11D10/04)] [C0810]
C11D3/20E3	. . . . .	[N: Polycarboxylic acids-salts thereof]
C11D3/20E5	. . . . .	[N: Hydroxy carboxylic acids-salts thereof]
C11D3/20E7	. . . . .	[N: Ether acids-salts thereof]
C11D3/20F	. . . . .	[N: Esters; Carbonates] [C9511]
C11D3/20G	. . . . .	[N: Heterocyclic compounds]
C11D3/22	. . . . .	Carbohydrates or derivatives thereof [N: (graft polymers C11D3/37E)]
C11D3/22B	. . . . .	[N: Mono, di- or trisaccharides or derivatives thereof]
C11D3/22E	. . . . .	[N: Natural or synthetic polysaccharides, e.g. cellulose, starch, gum, alginic acid, cyclodextrin]
C11D3/22E4	. . . . .	[N: oxidised]
C11D3/22E6	. . . . .	[N: etherified, e.g. CMC]
C11D3/22E8	. . . . .	[N: esterified]
C11D3/22E10	. . . . .	[N: with nitrogen-containing groups]
C11D3/22E12	. . . . .	[N: with phosphorus- or sulfur-containing groups]
C11D3/24	. . . . .	containing halogen [N: (C11D3/16B , C11D3/16D , C11D3/16E , C11D3/16K take precedence)] [C0810]
C11D3/24B	. . . . .	[N: containing fluorine]
C11D3/26	. . . . .	containing nitrogen [N: (C11D3/16B , C11D3/16D , C11D3/16E , C11D3/16K take precedence)] [C0810]
C11D3/28	. . . . .	Heterocyclic compounds containing nitrogen in the ring
C11D3/30	. . . . .	Amines; Substituted amines; [N: Quaternized amines] [C0810]
C11D3/32	. . . . .	Amides; Substituted amides
C11D3/32B	. . . . .	[N: urea or derivatives thereof]
C11D3/33	. . . . .	Amino carboxylic acids
C11D3/34	. . . . .	containing sulfur [N: (C11D3/16B , C11D3/16D , C11D3/16E , C11D3/16K take precedence)] [C0810]

[N: **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 [C11D3/00](#)) and indexed for the individual functional groups using codes

chosen from [M11D3/34A](#) to [M11D3/34L](#)

2. In case of mixtures or a list of alternatives or Markush formulae each individual compound is classified and indexed according to Note 1.

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C11D3/34A	. . .	[N: Alkyl -, alkenyl -, cycloalkyl - or terpene sulfates or sulfonates] [N0001]
C11D3/34B	. . .	[N: Toluene -, xylene -, cumene -, benzene - or naphthalene sulfonates or sulfates] [N0001]
C11D3/34C	. . .	[N: containing thiol, mercapto or sulfide groups, e.g. thioethers, mercaptals] [N0001]
C11D3/34D	. . .	[N: containing disulfide groups] [N0001]
C11D3/34E	. . .	[N: containing sulfinio groups, e.g. dimethyl sulfoxide] [N0001]
C11D3/34F	. . .	[N: containing sulfone groups, e.g. vinyl sulfones] [N0001]
C11D3/34G	. . .	[N: containing thio sulfate or sulfite groups] [N0001]
C11D3/34H	. . .	[N: additionally containing -COOH groups or derivatives thereof] [N0001] [C0203]
C11D3/34K	. . .	[N: containing sulfur in a heterocyclic ring, e.g. sultones, sulfolanones] [N0001]
C11D3/34L	. . .	[N: additionally containing nitrogen atoms, e.g. nitro, nitroso, amino, imino, nitrilo, nitrile groups containing compounds or their derivatives, thio urea] [N0001] [C0203]
C11D3/36	. .	containing phosphorus [N: (C11D3/16B , C11D3/16D , C11D3/16E , C11D3/16K take precedence)]
C11D3/36B	. . .	[N: Phosphonates, phosphinates, phosphonites]
C11D3/36C	. . .	[N: Phosphates, phosphites]
C11D3/36D	. . .	[N: containing nitrogen]
C11D3/36E	. . .	[N: containing carboxyl groups]
C11D3/36H	. . .	[N: containing halogen]
C11D3/36H2	. . . .	[N: containing fluorine]
C11D3/37	. .	Polymers [N: (polymeric surface-active agents C11D1/00D ; carbohydrates C11D3/22)] [C0810]
C11D3/37B	. . .	[N: Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds]
C11D3/37B2	. . . .	[N: Polyethers, e.g. polyalkyleneoxides]
C11D3/37B3	. . . .	[N: Polyacetal carboxylates]
C11D3/37B4	. . . .	[N: Polyesters; Polycarbonates] [C9511]
C11D3/37B8	. . . .	[N: Polyamides; Polyimides]
C11D3/37B9	. . . .	[N: Polyamines, polyalkyleneimines]
C11D3/37B10	. . . .	[N: Polyurethanes]
C11D3/37B12	. . . .	[N: containing silicones] [C0702]
C11D3/37B12B	. . . . .	[N:Cyclic silicones] [N0702]
C11D3/37B12E	. . . . .	[N: Alkoxylated silicones] [N0702]
C11D3/37B12F	. . . . .	[N: Nitrogen containing silicones] [N0702]
C11D3/37C	. . .	[N: Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds]

C11D3/37C2	. . . .	[N: Polyolefins; Halogenated polyolefins; Natural or synthetic rubber; Polyarylolefins; Halogenated polyarylolefins] [C9511]
C11D3/37C3	. . . .	[N: Polyvinylalcohol; Ethers or esters thereof] [N9511]
C11D3/37C6	. . . .	[N: (Co)polymerised carboxylic acids, -anhydrides, -esters in solid and liquid compositions]
C11D3/37C6B	. . . . .	[N: in solid compositions]
C11D3/37C6F	. . . . .	[N: in liquid compositions]
C11D3/37C8	. . . .	[N: (Co)polymerised monomers containing nitrogen, e.g. carbonamides, nitriles, amines]
C11D3/37C8F	. . . . .	[N: in liquid compositions]
C11D3/37C8H	. . . . .	[N: Heterocyclic compounds e.g. lactam]
C11D3/37C9	. . . .	[N: (Co)polymerised monomers containing sulfur, e.g. sulfonate] [N0901]
C11D3/37C10	. . . .	[N: (Co)polymerised monomers containing phosphorus]
C11D3/37E	. . . .	[N: Graft polymers]
C11D3/37N	. . . .	[N: Amine oxide containing polymers] [N9710]
C11D3/37Z	. . . .	[N: Amphoteric polymers; Zwitterionic polymers] [N0810]
C11D3/38	. . .	Products with no well-defined composition, [N: e.g. natural products]
C11D3/38B	. . . .	[N: Microorganisms]
C11D3/382	. . . .	Vegetable products, e.g. soya meal, wood flour, sawdust
C11D3/384	. . . .	Animal products
C11D3/384A	. . . . .	[N: Antibodies] [N9705]
C11D3/386	. . . .	Preparations containing enzymes, [N: e.g. protease, amylase]
C11D3/386A	. . . . .	[N: Protease or amylase in solid compositions only] [N9501]
C11D3/386B	. . . . .	[N: Protease or amylase in liquid compositions only] [N9501]
C11D3/386D	. . . . .	[N: containing lipase]
C11D3/386E	. . . . .	[N: containing enzymes other than protease, amylase, lipase, cellulase, oxidase, reductase]
C11D3/386F	. . . . .	[N: containing cellulase]
C11D3/386H	. . . . .	[N: containing oxidase, reductase]
C11D3/386J	. . . . .	[N: Stabilised liquid enzyme compositions (chemically modified or immobilised enzymes C11D3/386 , C12N)] [C9501]
C11D3/386M	. . . . .	[N: Granulated or coated enzymes]
C11D3/386N	. . . . .	[N: Chemically modified or immobilised enzymes] [N0810]
C11D3/386P	. . . . .	[N: Enzyme enhancers or mediators] [N0810]
C11D3/39	. . .	Organic or inorganic per-compounds
C11D3/39B	. . . .	[N: combined with specific additives] [C9410]
C11D3/39B2	. . . . .	[N: Bleach activators; Bleach catalysts] [C9501]

[N: **Notes**

1. In the absence of an indication to the contrary activators or catalysts are classified in the last appropriate place
2. In case of mixtures or a list of alternatives documents are classified in [C11D3/39B2](#) or [C11D3/39B2D](#) only and indexed for the individual

alternatives using codes chosen from [M11D3/39B2D](#) to [M11D3/39B2F](#)

-]
- C11D3/39B2D [N: Organic compounds] [C9410]
 - C11D3/39B2D4 [N: Oxygen-containing compounds] [N9410] [C9901]
 - C11D3/39B2D4B [N: derived from saccharides] [N9901]
 - C11D3/39B2D5 [N: Sulfur-containing compounds] [N9901]
 - C11D3/39B2D6 [N: Nitrogen-containing compounds] [N9410] [C9901]
 - C11D3/39B2D6B [N: Heterocyclic compounds, e.g. cyclic imides or lactames] [N9410]
 - C11D3/39B2D6C [N: Cyanamides] [N0102]
 - C11D3/39B2D6N [N: Nitriles; Isocyanates; Quarternary ammonium nitriles] [N0102]
 - C11D3/39B2D6Q [N: Quarternary ammonium compounds (**quarternary ammonium nitriles** [C11D3/39B2D6N](#))] [N0102]
 - C11D3/39B2D8 [N: Phosphorus, boron- or silicium-containing compounds] [N9410]
 - C11D3/39B2F [N: Inorganic compounds or complexes] [C9410]
 - C11D3/39B2M [N: granulated, coated or protected] [N0901]
 - C11D3/39B4 [N: Stablising agents]
 - C11D3/39B4D [N: Organic compounds] [C9410]
 - C11D3/39D . . . [N: Inorganic per-compounds ([C11D3/39B](#) takes precedence)] [C9501]
 - C11D3/39F . . . [N: Organic per-compounds ([C11D3/39B](#) takes precedence)] [C9501]
 - C11D3/39H . . . [N: Liquid compositions]

 - C11D3/395 . . . Bleaching agents [N: (**per-compounds** [C11D3/39](#))]
 - C11D3/395B . . . [N: combined with specific additives]
 - C11D3/395D . . . [N: Inorganic bleaching agents ([C11D3/395B](#) takes precedence)] [C9501]
 - C11D3/395F . . . [N: Organic bleaching agents ([C11D3/395B](#) takes precedence)] [C9501]
 - C11D3/395H . . . [N: Liquid compositions]
 - C11D3/395J . . . [N: combined with phosphates]

 - C11D3/40 . . . Dyes; [N: Pigments]
 - C11D3/42 . . . Brightening agents; [N: Blueing agents]

 - C11D3/43 . . . Solvents

 - C11D3/48 . . . Medical, disinfecting agents, disinfecting, antibacterial, germicidal or antimicrobial compositions [N1109]
 - C11D3/48H . . . [N: Halophors, e.g. iodophors] [N1109]

 - C11D3/50 . . . Perfumes
 - C11D3/50B . . . [N: Protected perfumes] [N9809]
 - C11D3/50B2 [N: encapsulated or adsorbed on a carrier, e.g. zeolite or clay] [N9809]
 - C11D3/50B4 [N: Compounds releasing perfumes by thermal or chemical activation] [N9809]

Guide heading: **Non-surface-active compounds**

C11D7/00 Compositions of detergents based essentially on non-surface-active compounds**Note**

In the absence of an indication to the contrary, in groups [C11D7/02](#) to [C11D7/46](#) a compound is classified in the last appropriate place.

- C11D7/02 . Inorganic compounds
- C11D7/04 . . Water-soluble compounds
- C11D7/06 . . . Hydroxides
- C11D7/08 . . . Acids
- C11D7/10 . . . Salts
- C11D7/10B [N: Nitrates; Nitrites]
- C11D7/12 Carbonates [N: bicarbonates]
- C11D7/14 Silicates
- C11D7/16 Phosphates including polyphosphates
- C11D7/20 . . Water-insoluble oxides

- C11D7/22 . Organic compounds
- C11D7/24 . . Hydrocarbons
- C11D7/24A . . . [N: linear] [N0403]
- C11D7/24B . . . [N: branched] [N0403]
- C11D7/24D . . . [N: unsaturated] [N0403]
- C11D7/24K . . . [N: cyclic] [N0403]
- C11D7/24R . . . [N: aromatic] [N0403]
- C11D7/24T . . . [N: Terpenes] [N0403]
- C11D7/26 . . containing oxygen
- C11D7/26A . . . [N: Alcohols; Phenols] [N0303]
- C11D7/26A2 [N: fatty or with at least 8 carbon atoms in the alkyl or alkenyl chain] [N0912]
- C11D7/26C . . . [N: Ethers] [N0303]
- C11D7/26D . . . [N: Aldehydes; Ketones; Acetals; Ketals] [N0303]
- C11D7/26E . . . [N: Carboxylic acids; Salts thereof] [N0303]
- C11D7/26F . . . [N: Esters; Carbonates] [N0304]
- C11D7/26H . . . [N: Heterocyclic compounds] [N0303]
- C11D7/26K . . . [N: Carbohydrates; Derivatives thereof] [N0303]
- C11D7/28 . . containing halogen
- C11D7/30 . . . Halogenated hydrocarbons
- C11D7/32 . . containing nitrogen
- C11D7/32A . . . [N: Amines or imines with one to four nitrogen atoms; Quaternized amines] [N0306] [C0901]
- C11D7/32B . . . [N: Alkanolamines; Alkanolimines] [N0306]
- C11D7/32C . . . [N: Ethers thereof] [N0306]
- C11D7/32D . . . [N: Aldehydes, ketones, acetals, ketals thereof] [N0306]
- C11D7/32E . . . [N: Aminoacids] [N0306]

- C11D7/32F . . . [N: Esters or carbonates thereof][N0306]
- C11D7/32G . . . [N: Amides; Imides][N0306]
- C11D7/32H . . . [N: Urea; Guanidine; Derivatives thereof] [N0306]
- C11D7/32K . . . [N: Heterocyclic compounds] [N0306]
- C11D7/32L . . . [N: Carbohydrate, derivatives thereof] [N0306]
- C11D7/34 . . containing sulfur
- C11D7/36 . . containing phosphorus
- C11D7/40 . . Products in which the composition is not well defined
- C11D7/44 . . . Vegetable products [C9501]
- C11D7/46 . . . Animal products [C9501]

- C11D7/50 . Solvents
- C11D7/50A . . [N: Organic solvents] [N9601]

- [N: **Note**
- In this group, classification is made in the first appropriate place
-]

- C11D7/50A2 . . . [N: containing phosphorus, sulfur or silicon, e.g. dimethylsulfoxide] [N9601]
- C11D7/50A4 . . . [N: containing nitrogen] [N9601]
- C11D7/50A6 . . . [N: Halogenated solvents] [N9601]
- C11D7/50A8 . . . [N: containing oxygen] [N9601]
- C11D7/50A10 . . . [N: Hydrocarbons] [N9601]
- C11D7/50B . . [N: Azeotropic mixtures of non-halogenated solvents] [C9410]
- C11D7/50D . . [N: Azeotropic mixtures containing halogenated solvents] [N9410]
- C11D7/50D2 . . . [N: all solvents being halogenated hydrocarbons] [N9410]
- C11D7/50D2B [N: Mixtures of (hydro)chlorofluorocarbons] [N9410]
- C11D7/50D2D [N: Mixtures of (hydro)fluorocarbons] [N9410]
- C11D7/50D2H [N: Mixtures of (hydro)chlorofluorocarbons and (hydro) fluorocarbons] [N9410]
- C11D7/50D2K [N: Mixtures containing (hydro)chlorocarbons] [N9410]
- C11D7/50D2M [N: Halogenated hydrocarbons containing heteroatoms, e.g. fluoro alcohols] [N9410]
- C11D7/50D4 . . . [N: Mixtures of halogenated and non-halogenated solvents] [N9410]
- C11D7/50D4B [N: Mixtures of only hydrocarbons] [N9410]
- C11D7/50D4D [N: Mixtures of only oxygen-containing solvents] [N9410]
- C11D7/50D4D2 [N: the oxygen-containing solvents being alcohols only] [N9410]
- C11D7/50D4D4 [N: the oxygen-containing solvents being different from alcohols, e.g. mixtures of water and ethers] [N9410]
- C11D7/50D4H [N: Mixtures of hydrocarbons and oxygen-containing solvents] [N9410]
- C11D7/50D4K [N: Mixtures including solvents containing other heteroatoms than oxygen, e.g. nitriles, amides, nitroalkanes, siloxanes, thioethers] [N9410]

Guide heading: Soap detergents

C11D9/00 **Compositions of detergents based essentially on soap** (compositions containing resin soap [C11D15/04](#))

- C11D9/00B . [N: Non alkali-metal soaps]
- C11D9/00C . [N: Synthetic soaps (see also [C11D1/04](#))]
- C11D9/00H . [N: Soaps or soap mixtures with well defined chain length]
- C11D9/02 . on alkali or ammonium soaps
- C11D9/04 . containing compounding ingredients other than soaps
- C11D9/04B . . [N: containing substances which prevent the deterioration of soaps, e.g. light or heat stabilisers, antioxidants]

Note

In groups 9/06 to 9/42, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

- C11D9/06 . . Inorganic compounds
- C11D9/08 . . . Water-soluble compounds
- C11D9/10 Salts
- C11D9/12 Carbonates
- C11D9/14 Phosphates; Polyphosphates
- C11D9/16 Borates
- C11D9/18 . . . Water-insoluble compounds
- C11D9/20 Fillers, abrasives [N1109]
- C11D9/22 . . Organic compounds, [N: e.g. vitamins]
- C11D9/22B . . . [N: Polymers]
- C11D9/24 . . . Hydrocarbons [N: ([C11D9/22B](#) takes precedence)]
- C11D9/26 . . . containing oxygen [N: ([C11D9/22B](#) takes precedence)]
- C11D9/26B [N: containing carbohydrates]
- C11D9/26D [N: containing glycerol]
- C11D9/26F [N: containing free fatty acids (see also [C11D9/48](#))]
- C11D9/28 . . . containing halogen [N: ([C11D9/22B](#) takes precedence)]
- C11D9/30 . . . containing nitrogen [N: ([C11D9/22B](#) takes precedence)]
- C11D9/32 . . . containing sulfur [N: ([C11D9/22B](#) takes precedence)]
- C11D9/34 . . . containing phosphorus [N: ([C11D9/22B](#) takes precedence)]
- C11D9/36 . . . containing silicon [N: ([C11D9/22B](#) takes precedence)]
- C11D9/38 . . . Products in which the composition is not well defined
- C11D9/40 . . . Proteins
- C11D9/42 . . Per-compounds
- C11D9/44 . . Perfumes; Colouring materials; Brightening agents [N: Bleaching agents]
- C11D9/44B . . . [N: Perfumes]
- C11D9/44D . . . [N: Dyes; Pigments]
- C11D9/44F . . . [N: Bleaching agents]
- C11D9/44H . . . [N: Brightening agents]
- C11D9/48 . . Superfating agents

C11D10/00 **Compositions of detergents, not provided for by one single preceding group**

- C11D10/04 . based on mixture of surface-active non-soap compounds and soap
- C11D10/04B . . [N: based on anionic surface-active compounds and soap]
- C11D10/04D . . [N: based on non-ionic surface-active compounds and soap]
- C11D10/04F . . [N: based on cationic surface-active compounds and soap]

C11D11/00 **Special methods for preparing compositions containing mixtures of detergents [N: (in the form of blocks, bars, tablets [C11D17/00H](#)); Methods for using cleaning compositions] [C9711]**

- C11D11/00B . [N: Special cleaning and washing methods]
- C11D11/00B2 . . [N: characterised by the objects to be cleaned] [C9711]
- C11D11/00B2A . . . [N: "Soft" surfaces, e.g. textiles] [N9711] [C0810]
- C11D11/00B2D . . . [N: "Hard" surfaces] [N9711]
- C11D11/00B2D2 [N: Metals (**degreasing metals [C23G5/00](#)**)] [N9711]
- C11D11/00B2D4 [N: Glass; Plastics] [N9711]
- C11D11/00B2D6 [N: Industrial or commercial equipment, e.g. reactors, tubes, engines (**[C11D11/00B2D8](#) takes precedence**)] [N9711]
- C11D11/00B2D8 [N: Electronic devices, e.g. PCBs, semiconductors] [N9711]
- C11D11/00B2D10 [N: Mineral surfaces, e.g. stones, frescoes, plaster, walls, concrete] [N9711]
- C11D11/00B6 . . [N: involving the application of foam or a temporary coating on the surface to be cleaned] [N9711]
- C11D11/00B8 . . [N: Multi-step methods] [N9711]
- C11D11/00B10 . . [N: involving applying energy, e.g. irradiation] [N9711]
- C11D11/00B12 . . [N: Regeneration of cleaning solutions] [N9711]

- C11D11/00D . [N: 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]
- C11D11/00D4 . . [N: the liquefied ingredients being sprayed or adsorbed onto solid particles]
- C11D11/00F . [N: Process for making liquid detergent compositions, e.g. slurries, pastes, gels]

- C11D11/02 . Preparation in the form of powder by spray drying

- C11D11/04 . by chemical means, e.g. by sulfonating in the presence of other compounding ingredients followed by neutralising

Guide heading: **Soap or soap-making; Resin soaps****C11D13/00** **Making of soap or soap solutions in general; Apparatus therefor ([resin soap \[C11D15/00\]\(#\)](#))**

- C11D13/02 . Boiling soap; Refining

- C11D13/04 . . Continuous methods therefor
- C11D13/06 . . Bleaching of soap or soap solutions
- C11D13/08 . Colouring, [N: e.g. striated bars, striped bars] or perfuming
- C11D13/10 . Mixing; Kneading
- C11D13/12 . Cooling ([C11D13/14](#) takes precedence)
- C11D13/14 . Shaping
- C11D13/16 . . in moulds
- C11D13/18 . . by extrusion or pressing
- C11D13/20 . . in the form of small particles, e.g. powder, flakes (by slicing [C11D13/24](#))
- C11D13/22 . Cutting
- C11D13/24 . . Slicing soap on the cooling drum
- C11D13/26 . Drying ([drying ovens F27](#))
- C11D13/28 . Embossing; Polishing
- C11D13/30 . Recovery of soap, e.g. from spent solutions
- C11D15/00** **Manufacture of resin soap or soaps derived from naphthenic acids; Compositions**
- C11D15/02 . Apparatus therefor
- C11D15/04 . Compositions containing resin soap or soap derived from naphthenic acids
- C11D17/00** **Detergent materials characterised by their shape or physical properties [N: (soaps [C11D9/00](#), [shaping soap C11D13/00](#))] [C0810]**
- C11D17/00A . [N: Non aqueous liquid compositions comprising insoluble particles] [N9501]
- C11D17/00B . [N: aqueous liquid non soap compositions ([C11D3/00B3](#), [C11D3/39H](#), [C11D3/395H](#) take precedence)] [C1111]
 [N: **WARNING** [N1111]
 This subgroup is not longer used for the classification of new documents from 01 November 2011
]
- C11D17/00B2 . . [N: Liquid compositions with insoluble particles in suspension ([C11D17/00B3M](#), [C11D17/00B4](#), [C11D17/00B6](#) take precedence)] [C9501]
- C11D17/00B3 . . [N: Multi-phase liquid compositions]
- C11D17/00B3M . . . [N: Aqueous microemulsions] [N9410]
- C11D17/00B4 . . [N: Structured liquid compositions, e.g. liquid crystalline phases, network containing non-Newtonian phase, ([thixotropic solutions C11D17/00B6](#))] [C9501]
- C11D17/00B6 . . [N: Colloidal solutions, e.g. gels; Thixotropic solutions; Pastes] [N9501]
- C11D17/00C . [N: Fixed on a solid conventional detergent ingredient]

- C11D17/00D . [N: Coated compositions or coated components in the compositions, (micro)capsules]
- C11D17/00E . [N: For use with aerosol devices]
- C11D17/00H . [N: Detergents in the form of bars or tablets] [C0810]
- C11D17/00H2 . . [N: Cast detergent compositions]
- C11D17/00H4 . . [N: Lavatory cleansing blocks]
- C11D17/00H6 . . [N: containing mainly surfactants, but no builders, e.g. syndet bar] [N9509]
- C11D17/00H8 . . [N: Solid detergents containing builders ([C11D17/06](#) takes precedence)] [N9509] [C9902]
- C11D17/00H8B . . . [N: Laundry bars] [N9902]
- C11D17/00H8T . . . [N: Tablets] [N9902]
- C11D17/00H8T2 [N: Multilayered tablets] [N9902]
- C11D17/00H8T4 [N: Coated tablets] [N9902]
- C11D17/00H8T6 [N: Laundry tablets] [N9902]
- C11D17/00H8T8 [N: Dishwashing tablets] [N9902]
- C11D17/00K . [N: Solid transparent soaps or detergents] [C9501]
- C11D17/02 . Floating bodies of detergents [N: or of soaps]
- C11D17/04 . combined with or containing other objects
- C11D17/04B . . [N: Compositions releasably affixed on a substrate or incorporated into a dispensing means]
- C11D17/04B2 . . . [N: Water soluble or water disintegrable containers or substrates containing cleaning compositions or additives for cleaning compositions (**packaging of disintegrable, dissolvable or edible materials [B65D65/46](#)**)] [N0312] [C1006]
- C11D17/04B2L [N: Liquid or thixotropic (gel) compositions] [N0312]
- C11D17/04B2S [N: Solid compositions] [N0312]
- C11D17/04B2T [N: Multi-compartment] [N0810]
- C11D17/04B4 . . . [N: Insoluble free body dispenser] [N0810] [C1109]
- C11D17/04B6 . . . [N: Arrangements specially adapted for dry cleaning or laundry dryer related applications] [N0810]
- C11D17/04D . . [N: Soap or detergent bars or cakes with an inner core consisting of insoluble material (**floating soaps [C11D17/02](#)**)]
- C11D17/04F . . [N: Cleaning or scouring pads; Wipes] [C0810]
- C11D17/06 . Powder; Flakes; Free-flowing mixtures; Sheets
- C11D17/06H . . [N: High-density particulate detergent compositions]
- C11D17/08 . Liquid soap, [N: e.g. for dispensers]; Capsuled
- C11D19/00** **Recovery of glycerol from a saponification liquor ([refining glycerol C07C31/22](#))**