

C11 ANIMAL OR VEGETABLE OILS, FATS, FATTY SUBSTANCES OR WAXES; FATTY ACIDS THEREFROM; DETERGENTS; CANDLES (edible oil or fat compositions A23)**C11B PRODUCING (PRESSING, EXTRACTION), REFINING OR PRESERVING FATS, FATTY SUBSTANCES (E.G. LANOLIN), FATTY OILS OR WAXES, INCLUDING EXTRACTION FROM WASTE MATERIALS; ESSENTIAL OILS; PERFUMES** (drying-oils C09F)**Subclass Index**

PRODUCTION	REFINING, PRESERVING, SOLIDIFYING	3/00, 5/00, 7/00, 15/00
of fats or fatty oils.....		1/00, 13/00
of other fatty substances	ESSENTIAL OILS, PERFUMES	11/00 9/00

1/00	Production of fats or fatty oils from raw materials	3/14	. . with the use of indifferent gases or vapours, e.g. steam
1/02	. Pretreatment	3/16	. by mechanical means
1/04	. . of vegetable raw material	5/00	Preserving by using additives, e.g. anti-oxidants
1/06	. by pressing	7/00	Separation of mixtures of fats or fatty oils into their constituents, e.g. saturated oils from unsaturated oils
1/08	. . by hot pressing	9/00	Essential oils; Perfumes (synthesis of chemical substances C07)
1/10	. by extracting	9/02	. Recovery or refining of essential oils from raw materials
1/12	. by melting out	11/00	Recovery or refining of other fatty substances, e.g. lanolin, waxes (synthetic waxes C07, C08; mineral waxes C10G)
1/14	. . with hot water or aqueous solutions	13/00	Recovery of fats, fatty oils, or fatty acids from waste materials (mechanical separation from waste water C02F, E03F)
1/16	. . with steam	13/02	. from soap stock
3/00	Refining fats or fatty oils	13/04	. from spent adsorption materials
3/02	. by chemical reaction	15/00	Solidifying fatty oils, fats, or waxes by physical processes
3/04	. . with acids		
3/06	. . with bases		
3/08	. . with oxidising agents		
3/10	. by adsorption		
Note			
When classifying in this group, classification is also made in group B01D 15/08 insofar as subject matter of general interest relating to chromatography is concerned. [8]			
3/12	. by distillation		

C11C FATTY ACIDS FROM FATS, OILS OR WAXES; CANDLES; FATS, OILS OR FATTY ACIDS BY CHEMICAL MODIFICATION OF FATS, OILS, OR FATTY ACIDS OBTAINED THEREFROM

1/00	Preparation of fatty acids from fats, fatty oils, or waxes; Refining the fatty acids (recovery of fatty acids from waste materials C11B 13/00)	3/04	. by esterification of fats or fatty oils
1/02	. from fats or fatty oils	3/06	. . with glycerol
1/04	. . by hydrolysis	3/08	. . with fatty acids
1/06	. . . using solid catalysts	3/10	. . Ester interchange
1/08	. Refining	3/12	. by hydrogenation
1/10	. . by distillation	3/14	. by isomerisation
3/00	Fats, oils, or fatty acids by chemical modification of fats, oils, or fatty acids obtained therefrom (sulfonated fats or oils C07C 309/62; factice C08H; drying-oils C09F)	5/00	Candles
3/02	. by esterification of fatty acids with glycerol	5/02	. Apparatus for preparation thereof

C11D DETERGENT COMPOSITIONS (preparations specially adapted for washing the hair A61K 8/00, A61Q 5/12; 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**

Notes

- (1) When classifying in the mixture groups of this subclass, any individual ingredient of a composition which is not identified by such classification, and which itself is determined to be novel and non-obvious, must also be classified in groups C11D 1/00 to C11D 9/00. The individual ingredient can be either a single substance or a composition in itself. [8]
- (2) Any ingredient of a composition which is not identified by the classification according to Note (1) above, and which is considered to represent information of interest for search, may also be classified in groups C11D 1/00 to C11D 9/00. This can, for example, be the case when it is considered of interest to enable searching of compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information". [8]

Subclass Index

SURFACE-ACTIVE DETERGENTS	DETERGENT MIXTURES.....	10/00, 11/00
Non-soap.....	SOAP-MAKING; GLYCEROL.....	13/00, 15/00;
Based on soap.....		19/00
NON-SURFACE-ACTIVE DETERGENTS.....	SHAPE.....	17/00

Surface-active non-soap detergents

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

Note

In groups C11D 1/02 to C11D 1/88, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

1/02	. Anionic compounds	1/44	. . . Ethers of polyoxyalkylenes with amino alcohols; Condensation products of epoxyalkanes with amines
1/04	. . Carboxylic acids or salts thereof (soap C11D 9/00)	1/46	. . Esters of carboxylic acids with amino alcohols; Esters of amino carboxylic acids with alcohols
1/06	. . . Ether- or thioether carboxylic acids	1/48	. . N-containing polycondensation products
1/08	. . . Polycarboxylic acids containing no nitrogen or sulfur	1/50	. . Derivatives of urea, thiourea, cyanamide, guanidine or urethanes
1/10	. . . Amino carboxylic acids; Imino carboxylic acids; Fatty acid condensates thereof	1/52	. . Carboxylic amides, alkylolamides or imides (C11D 3/07 takes precedence)
1/12	. . Sulfonic acids or sulfuric acid esters; Salts thereof (C11D 3/065 takes precedence)	1/54	. . Hydrazides of carboxylic acids
1/14	. . . derived from aliphatic hydrocarbons or mono-alcohols	1/56	. . containing nitro or nitroso groups
1/16	. . . derived from divalent or polyvalent alcohols	1/58	. . Heterocyclic compounds
1/18	. . . derived from amino alcohols	1/60	. . Sulfonium or phosphonium compounds
1/20	. . . Fatty acid condensates	1/62	. . Quaternary ammonium compounds
1/22	. . . derived from aromatic compounds	1/64	. . of unknown constitution
1/24	. . . containing ester or ether groups directly attached to the nucleus	1/645	. . Mixtures of compounds all of which are cationic
1/26	. . . derived from heterocyclic compounds	1/65	. . Mixtures of anionic with cationic compounds
1/28	. . . Sulfonation products derived from fatty acids or their derivatives, e.g. esters, amides	1/655	. . . of sulfonated products with alkylolamides of carboxylic acids (C11D 3/066 takes precedence)
1/29	. . . Sulfates of polyoxyalkylene ethers [2]	1/66	. Non-ionic compounds
1/30	. . . Sulfonation products derived from lignin	1/68	. . Alcohols; Oxidation products of paraffin wax, other than acids
1/32	. . Protein hydrolysates; Fatty acid condensates thereof	1/70	. . Phenols
1/34	. . Derivatives of acids of phosphorus	1/72	. . Ethers of polyoxyalkylene glycols (C11D 3/075 takes precedence)
1/36	. . of unknown constitution	1/722	. . Ethers of polyoxyalkylenes having mixed oxyalkylene groups [2]
1/37	. . Mixtures of compounds all of which are anionic	1/74	. . Carboxylates or sulfonates of polyoxyalkylene glycols
1/38	. Cationic compounds	1/75	. . Amino oxides [2]
1/40	. . Monoamines or polyamines; Salts thereof	1/755	. . Sulfoxides [2]
1/42	. . Amino alcohols or amino ethers	1/76	. . Synthetic resins containing no nitrogen
		1/78	. . Neutral esters of acids of phosphorus
		1/79	. . Phosphine oxides [2]
		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-anionic
		1/83	. . Mixtures of non-ionic with anionic compounds

- 1/831 . . . of sulfonates with ethers of polyoxyalkylenes without phosphates
- 1/835 . . Mixtures of non-ionic with cationic compounds
- 1/86 . Mixtures of anionic, cationic, and non-ionic compounds
- 1/88 . Ampholytes; Electroneutral compounds [2]
- 1/90 . . Betaines [2]
- 1/92 . . Sulfobetaines [2]
- 1/94 . . Mixtures with anionic, cationic or non-ionic compounds [2]

3/00 Other compounding ingredients of detergent compositions covered in group C11D 1/00

Note

In groups C11D 3/02 to C11D 3/39, in the absence of an indication to the contrary, a compound is classified in the last appropriate place. [2]

- 3/02 . Inorganic compounds
- 3/04 . . Water-soluble compounds
- 3/06 . . . Phosphates, including polyphosphates
- 3/065 in admixture with sulfonated products
- 3/066 and with alkylolamides of carboxylic acids
- 3/07 in a mixture with alkylolamides of carbocyclic acids
- 3/075 in admixture with ethers of polyoxyalkylenes
- 3/08 . . . Silicates
- 3/10 . . . Carbonates
- 3/12 . . Water-insoluble compounds
- 3/14 . . . Pigments; Fillers; Abrasives
- 3/16 . Organic compounds
- 3/18 . . Hydrocarbons
- 3/20 . . containing oxygen
- 3/22 . . . Carbohydrates or derivatives thereof
- 3/24 . . containing halogen
- 3/26 . . containing nitrogen
- 3/28 . . . Heterocyclic compounds containing nitrogen in the ring
- 3/30 . . . Amines; Substituted amines
- 3/32 . . . Amides; Substituted amides
- 3/33 . . . Amino carboxylic acids [2]
- 3/34 . . containing sulfur
- 3/36 . . containing phosphorus
- 3/37 . . Polymers [2]
- 3/38 . . Products with no well-defined composition
- 3/382 . . . Vegetable products, e.g. soya meal, wood flour, sawdust [2]
- 3/384 . . . Animal products [2]
- 3/386 . . . Preparations containing enzymes [2]
- 3/39 . Organic or inorganic per-compounds [2]
- 3/395 . Bleaching agents [2]
- 3/40 . Dyes [2]
- 3/42 . . Brightening agents [2]
- 3/43 . Solvents [2]
- 3/44 . . Mixed solvents
- 3/46 . Superfatting agents [2]
- 3/48 . Medicinal or disinfecting agents [2]
- 3/50 . Perfumes [2]
- 3/60 . Mixtures of compounding ingredients [2]

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

Note

In groups C11D 7/02 to C11D 7/22, in the absence of an indication to the contrary, 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
- 7/12 Carbonates
- 7/14 Silicates
- 7/16 Phosphates including polyphosphates
- 7/18 . . Peroxides; Persalts
- 7/20 . . Water-insoluble oxides
- 7/22 . Organic compounds
- 7/24 . . Hydrocarbons
- 7/26 . . containing oxygen
- 7/28 . . containing halogen
- 7/30 . . . Halogenated hydrocarbons
- 7/32 . . containing nitrogen
- 7/34 . . containing sulfur
- 7/36 . . containing phosphorus
- 7/38 . . Per-compounds
- 7/40 . . Products in which the composition is not well defined
- 7/42 . . . Preparations containing enzymes
- 7/44 . . . Vegetable products (C11D 7/42 takes precedence)
- 7/46 . . . Animal products (C11D 7/42 takes precedence)
- 7/50 . Solvents [2]
- 7/52 . . combined with promoters [2]
- 7/54 . Bleaching agents [2]
- 7/56 . . combined with phosphates [2]
- 7/60 . Mixtures of non-surface-active compounds [2]

Soap Detergents

9/00 Compositions of detergents based essentially on soap (compositions containing resin soap C11D 15/04)

- 9/02 . on alkali or ammonium soaps
- 9/04 . containing compounding ingredients other than soaps

Note

In groups C11D 9/06 to 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 Pigments; Fillers; Abrasives
- 9/22 . . Organic compounds
- 9/24 . . . Hydrocarbons
- 9/26 . . . containing oxygen
- 9/28 . . . containing halogen

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- 9/30 . . . containing nitrogen
- 9/32 . . . containing sulfur
- 9/34 . . . containing phosphorus
- 9/36 . . . containing silicon
- 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
- 9/48 . . Superfating agents
- 9/50 . . Medicinal or disinfecting agents
- 9/60 . . Mixtures of compounding ingredients [2]

10/00 Compositions of detergents, not provided for by any single one of main groups C11D 1/00 to C11D 9/00 [2]

- 10/02 . based on mixtures of surface-active non-soap and non-surface-active compounds [2]
- 10/04 . based on mixtures of surface-active non-soap compounds and soap [2]
- 10/06 . based on mixtures of non-surface-active compounds and soap [2]

11/00 Special methods for preparing compositions containing mixtures of detergents

- 11/02 . Preparation in the form of powder by spray-drying
- 11/04 . by chemical means, e.g. 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 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 by 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 or soaps characterised by their shape or physical properties (shaping soap C11D 13/14)

- 17/02 . Floating bodies of detergents
- 17/04 . combined with or containing other objects
- 17/06 . Powder; Flakes; Free-flowing mixtures; Sheets
- 17/08 . Liquid soap; capsuled

19/00 Recovery of glycerol from a saponification liquor (refining glycerol C07C 31/22)