SECTION C — CHEMISTRY; METALLURGY

C11 ANIMAL OR VEGETABLE OILS, FATS, FATTY SUBSTANCES OR WAXES; FATTY ACIDS THEREFROM; DETERGENTS; CANDLES

PRODUCING, e.g. BY PRESSING RAW MATERIALS OR BY EXTRACTION FROM WASTE MATERIALS, REFINING OR PRESERVING FATS, FATTY SUBSTANCES, e.g. LANOLIN, FATTY OILS OR WAXES; ESSENTIAL OILS; PERFUMES (drying-oils C09F)

Subclass index

PRODUC			
	s or fatty oils		
	er fatty substances		
	G, PRESERVING, SOLIDIFYING		
ESSENTI	AL OILS, PERFUMES	•••••	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.
1/02	 Pretreatment 		steam
1/04	of vegetable raw material	3/16	 by mechanical means
1/06	by pressing		
1/08	by hot pressing	5/00	Preserving by using additives, e.g. anti-oxidants
1/10	by extracting	7/00	Separation of mixtures of fats or fatty oils into their
1/12	by melting out	7700	constituents, e.g. saturated oils from unsaturated oils
1/14	 with hot water or aqueous solutions 		constituents, e.g. sucuruccu ons nom unsucuruccu ons
1/16	• • with steam	9/00	Essential oils; Perfumes (synthesis of chemical substances C07)
3/00	Refining fats or fatty oils	9/02	 Recovery or refining of essential oils from raw
3/02	by chemical reaction		materials
3/04	• • with acids	44/00	
3/06	• • with bases	11/00	Recovery or refining of other fatty substances, e.g.
3/08	 with oxidising agents 		lanolin, waxes (synthetic waxes C07, C08; mineral waxes C10G)
3/10	by adsorption		waxes Glod)
	Note(s) [2006.01]	13/00	Recovery of fats, fatty oils, or fatty acids from waste materials (mechanical separation from waste water
	When classifying in this group, classification is also		C02F, E03F)
	made in group B01D 15/08 insofar as subject matter of	13/02	• from soap stock
	general interest relating to chromatography is	13/04	from spent adsorption materials
	concerned.	10,01	adoorphion materials
3/12	• by distillation	15/00	Solidifying fatty oils, fats, or waxes by physical processes

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

1/00	Preparation of fatty acids from fats, fatty oils, or	3/00	Fats, oils or fatty acids obtained by chemical
	waxes; Refining the fatty acids (recovery of fatty acids		modification of fats, oils or fatty acids, e.g. by
	from waste materials C11B 13/00)		ozonolysis (sulfonated fats or oils C07C 309/62;
1/02	 from fats or fatty oils 		epoxidised fats C07D 303/42; vulcanised oils, e.g.
1/04	 by hydrolysis 		factice C08H 3/00)
1/06	• • using solid catalysts	3/02	 by esterification of fatty acids with glycerol
1/08	Refining	3/04	 by esterification of fats or fatty oils
1/10	by distillation	3/06	 with glycerol
	- y	3/08	 with fatty acids
		3/10	• • Ester interchange

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3/12 • by hydrogenation

3/14 • by isomerisation

5/00 Candles

5/02 • Apparatus for preparation thereof

C11D DETERGENT COMPOSITIONS; USE OF SINGLE SUBSTANCES AS DETERGENTS; SOAP OR SOAP-MAKING; RESIN SOAPS; RECOVERY OF GLYCEROL

Note(s)

- 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-C11D 9/00. The individual ingredient can be either a single substance or a composition in itself.
- 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-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".

Subclass index

SURFACE-ACTIVE DETERGENTS	
Non-soap	
Based on soap	9/00
NON-SURFACE-ACTIVE DETERGENTS	7/00
DETERGENT MIXTURES	
SOAP-MAKING; GLYCEROL	
SHAPE	17/00

<u>Surface-</u> 1/00	Detergent compositions based essentially on surface- active compounds; Use of these compounds as a detergent	1/38 1/40 1/42 1/44
	Note(s) In groups C11D 1/02-C11D 1/88, in the absence of an	1/46

In groups C11D 1/02-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

1/04 • Carboxylic acids or salts thereof (soap C11D 9/00)

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

1/12 • • Sulfonic acids or sulfuric acid esters; Salts thereof (C11D 3/065 takes precedence)

1/14 • • derived from aliphatic hydrocarbons or monoalcohols

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 [2]

1/30 • • • Sulfonation products derived from lignin

1/32 • Protein hydrolysates; Fatty acid condensates thereof

1/34 • • Derivatives of acids of phosphorus

1/36 • • of unknown constitution

1/37 • • Mixtures of compounds all of which are anionic

1/38 • Cationic compounds

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

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 (C11D 3/07 takes precedence)

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

1/645 • • Mixtures of compounds all of which are cationic

1/65 • • Mixtures of anionic with cationic compounds

1/655 • • of sulfonated products with alkylolamides of carboxylic acids (C11D 3/066 takes precedence)

1/66 • Non-ionic compounds

1/68 • Alcohols; Oxidation products of paraffin wax, other than acids

1/70 • • Phenols

1/72 • Ethers of polyoxyalkylene glycols (C11D 3/075 takes precedence)

1/722 • Ethers of polyoxyalkylenes having mixed oxyalkylene groups [2]

1/74 • Carboxylates or sulfonates of polyoxyalkylene glycols

1/75 • • Amino oxides [2]

1/755 • • Sulfoxides **[2]**

1/78	 Neutral esters of acids of phosphorus 	3/46	 Superfatting agents [2]
1/79	• • Phosphine oxides [2]	3/48	 Medicinal or disinfecting agents [2]
1/80	 Derivatives of lignin containing no sulfo- or 	3/50	• Perfumes [2]
	sulfate groups	3/60	 Mixtures of compounding ingredients [2]
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	7/00	Compositions of detergents based essentially on non-
1/831	• of sulfonates with ethers of polyoxyalkylenes		surface-active compounds
-, -, -	without phosphates		Note(s)
1/835	Mixtures of non-ionic with cationic compounds		• •
1/86	Mixtures of anionic, cationic, and non-ionic		In groups C11D 7/02-C11D 7/22, in the absence of an indication to the contrary, a compound is classified in
	compounds		the last appropriate place.
1/88	 Ampholytes; Electroneutral compounds [2] 	7/02	Inorganic compounds
1/90	• • Betaines [2]	7/04	Water-soluble compounds
1/92	• • Sulfobetaines [2]	7/06	• • • Hydroxides
1/94	Mixtures with anionic, cationic or non-ionic	7/08	• • • Acids
	compounds [2]	7/10	• • • Salts
3/00	Other compounding ingredients of detergent	7/12	• • • Carbonates
	compositions covered in group C11D 1/00	7/14	• • • Silicates
	Note(c)	7/16	 Phosphates including polyphosphates
	Note(s)	7/18	 Peroxides; Persalts
	In groups C11D 3/02-C11D 3/39, in the absence of an	7/20	 Water-insoluble oxides
	indication to the contrary, a compound is classified in the last appropriate place.	7/22	 Organic compounds
3/02	Inorganic compounds	7/24	 Hydrocarbons
3/04	Water-soluble compounds	7/26	 containing oxygen
3/04	Phosphates, including polyphosphates	7/28	 containing halogen
3/065	• • • in admixture with sulfonated products	7/30	 Halogenated hydrocarbons
3/066	• • • and with alkylolamides of carboxylic	7/32	containing nitrogen
57 000	acids	7/34	containing sulfur
3/07	• • • in a mixture with alkylolamides of	7/36	containing phosphorus
	carbocyclic acids	7/38	• • Per-compounds
3/075	• • • in admixture with ethers of polyoxyalkylenes	7/40	 Products in which the composition is not well defined
3/08	• • • Silicates	7/42	 Preparations containing enzymes
3/10	• • Carbonates	7/44	 Vegetable products (C11D 7/42 takes
3/12	Water-insoluble compounds		precedence)
3/14	Pigments; Fillers; Abrasives	7/46	• • • Animal products (C11D 7/42 takes precedence)
3/16	Organic compounds	7/50	• Solvents [2]
3/18	Hydrocarbons	7/52	• combined with promoters [2]
3/20	containing oxygen	7/54	Bleaching agents [2]
3/22	 Carbohydrates or derivatives thereof 	7/56	• • combined with phosphates [2]
3/24	containing halogen	7/60	• Mixtures of non-surface-active compounds [2]
3/26	containing nitrogen		
3/28	 Heterocyclic compounds containing nitrogen in the ring 	Soap Det	<u>tergents</u>
3/30	Amines; Substituted amines	9/00	Compositions of detergents based essentially on soap
3/32	• • • Amides; Substituted amides		(compositions containing resin soap C11D 15/04)
3/33	• • • Amino carboxylic acids [2]		
3/34	containing sulfur		
3/36	 containing phosphorus 	9/02	on alkali or ammonium soaps
3/37	• • Polymers [2]	9/04	• containing compounding ingredients other than soaps
3/38	 Products with no well-defined composition 		Note(s)
3/382	 • Vegetable products, e.g. soya meal, wood flour, sawdust [2] 		In groups C11D 9/06-C11D 9/42, in the absence of an
3/384	• • • Animal products [2]		indication to the contrary, a compound is classified in
3/386	Preparations containing enzymes [2]	0/06	the last appropriate place.
3/39	Organic or inorganic per-compounds [2]	9/06 9/08	Inorganic compoundsWater-soluble compounds
3/395	Bleaching agents [2]	9/08	• • • Water-soluble compounds • • • • Salts
3/40	• Dyes [2]	9/10	• • • • Carbonates
		J/ 12	Caroniace

3/44

Mixed solvents

1/76

3/42

3/43 • Solvents **[2]**

• • Brightening agents [2]

• • Synthetic resins containing no nitrogen

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9/14 • • • • Phosphates; Polyphosphates

9/16	• • • • Borates	Soap or	soap-making; Resin soaps
9/18	• • Water-insoluble compounds	40.400	
9/20	 • • • Pigments; Fillers; Abrasives 	13/00	Making of soap or soap solutions in general;
9/22	 Organic compounds 	13/02	Apparatus therefor (resin soap C11D 15/00)Boiling soap; Refining
9/24	• • • Hydrocarbons	13/02	Continuous methods therefor
9/26	containing oxygen	13/04	
9/28	containing halogen	13/08	 Bleaching of soap or soap solutions Colouring or perfuming
9/30	containing nitrogen	13/00	Mixing; Kneading
9/32	containing sulfur	13/10	 Cooling (C11D 13/14 takes precedence)
9/34	 containing phosphorus 	13/14	Shaping Shaping
9/36	containing silicon	13/14	• • in moulds
9/38	 Products in which the composition is not well 	13/18	by extrusion or by pressing
	defined	13/10	 by extrusion of by pressing in the form of small particles, e.g. powder or
9/40	• • • Proteins	13/20	flakes
9/42	 Per-compounds 	13/22	• Cutting
9/44	 Perfumes; Colouring materials; Brightening agents 	13/24	Slicing soap on the cooling drum
9/48	 Superfatting agents 	13/26	Drying
9/50	Medicinal or disinfecting agents	13/28	• Embossing; Polishing
9/60	 Mixtures of compounding ingredients [2] 	13/30	Recovery of soap, e.g. from spent solutions
10/00	Compositions of detergents, not provided for by any	15/50	riceovery or soup, e.g. nom spent solutions
10/00	single one of main groups C11D 1/00-C11D 9/00 [2]	15/00	Manufacture of resin soap or soaps derived from
10/02	based on mixtures of surface-active non-soap and		naphthenic acids; Compositions
	non-surface-active compounds [2]	15/02	 Apparatus therefor
10/04	 based on mixtures of surface-active non-soap 	15/04	Compositions containing resin soap or soap derived
	compounds and soap [2]		from naphthenic acids
10/06	 based on mixtures of non-surface-active compounds 		
	and soap [2]		
11/00	Special methods for preparing compositions	17/00	Detergent materials or soaps characterised by their
11/00	containing mixtures of detergents		shape or physical properties (shaping soap
11/02	Preparation in the form of powder by spray-drying		C11D 13/14)
11/04	 by chemical means, e.g. sulfonating in the presence 	17/02	 Floating bodies of detergents
11704	of other compounding ingredients followed by neutralising	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