

Universal Decimal Classification —

Second English full edition —
FID publication no. 483 —

UDC 665 Oils. Fats. Waxes. Adhesives.
Gums. Resins

UDC 025.45:665

Cooperating organizations

The Documentation Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government departments and scientific and professional organizations:

Aslib*	Department of Industry — Research and Development Contractors
Biological Council	Her Majesty's Stationery Office
Bodleian Library	Inspec
Booksellers Association of Great Britain and Ireland	Institute of Information Scientists*
British Council	Institute of Scientific and Technical Communicators
British Library — Bibliographic Services Division*	Library Association*
British Library — Department of Printed Books	Ministry of Defence*
British Library — Lending Division*	National Library of Scotland
British Library — Reference Division	National Library of Wales
British Library — Research and Development Department	National Reprographic Centre for documentation
British Library — Science Reference Library	Patent Office
Committee of London Clearing Bankers on behalf of the Committee of Scottish Clearing Bankers, Co-operative Bank, Central Trustee Savings Bank and Yorkshire Bank	Periodical Publishers Association Ltd.
Commonwealth Agricultural Bureaux*	Permanent Committee on Geographical Names (Royal Geographical Society)
Construction Industry Research and Information Association	Publishers Association
Council of Polytechnic Librarians	Royal Institute of British Architects
	Royal Society
	Science Museum Library*
	Society of Indexers
	Standing Conference of National and University Libraries*

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

Association of British Library and Information Studies Schools	Ministry of Agriculture, Fisheries and Food
British Ceramic Research Association	National College of Food Technology
British Food Manufacturing Industries Research Association	Oil and Colour Chemists Association
British Glass Industry Research Association	Pharmaceutical Society of Great Britain
Cement and Concrete Association	Polytechnic of Central London
Chemical Industries Association	Polytechnic of North London
Classification Research Group	Polytechnic of the South Bank
Cranfield Institute of Technology	Process Plant Association
Department of the Environment (PSA)	Royal Institute of Chemistry
Ealing College of Higher Education	Royal Institution of Chartered Surveyors
Engineering Equipment Users Association	Society of Dyers and Colourists
Institute of Marine Engineers	United Kingdom Atomic Energy Authority
Institution of Chemical Engineers	United Kingdom Chemical Information Service
Institution of Electrical Engineers	University College London, School of Library Archive and Information Studies
Institution of Gas Engineers	

Amendments issued since publication

Amd. No.	Date of issue	Comments

This British Standard, having been prepared under the direction of the Documentation Standards Committee, was published under the authority of the Executive Board and comes into effect on 28 September 1979

© BSI 01-2000

First published July 1971
First revision September 1979

The following BSI reference relates to the work on this standard:
Committee reference DOS/3

ISBN 0 580 10966 6

Contents

	Page
Cooperating organizations	Inside front cover
Foreword	iii
Scope	1
Related subjects	1
Auxiliary signs and subdivisions	1
Typographic presentation	1
Schedule	
665.1 Generalities on oils, fats, waxes and products derived from them	2
665.2 Oils, fats and waxes of animal origin	2
665.3 Vegetable oils, fats, waxes and phosphatides	3
665.32 Non-drying vegetable oils	3
665.33 Semi-drying vegetable oils	4
665.34 Drying vegetable oils	5
665.35 Vegetable fats. Oils with high melting point	6
665.36 Vegetable waxes	7
665.37 Vegetable phosphatides	7
665.38 Special products	7
665.5 Essential oils. Perfumery. Cosmetics	7
665.52 Natural essential oils	7
665.53 Principal constituents of essential oils	9
665.54 Synthetic essential oils	9
665.56 Fruit essences	9
665.57 Perfumery. Perfumes. Perfuming	9
665.58 Cosmetics. Toilet requisites	9
665.6 Mineral oil technology. Technology of petroleum and allied products	10
665.61 Crude oil	11
665.62 Treatment of crude oil and natural gas for working-up, conversion and refining	11
665.63 Working-up processes for crude oil and its fractions, mainly by distillation	11
665.64 Cracking and reforming	12
665.65 Conversion processes other than cracking and reforming: syntheses, high-temperature processes for the removal of undesired constituents	12
665.66 Refining. Removal of undesired constituents by low-temperature processes	12
665.7 Products of the mineral oil industry. Mineral oils and similar products	13
665.71 Petrochemicals (as a group)	14
665.72 Gases	14
665.73 Gasolines and other products boiling in the gasoline range	14
665.74 Kerosine	14
665.75 Gas oils. Diesel fuels. Fuel oils	14
665.76 Lubricating oils. Greases. Special fluids. Fractions other than hydrocarbons	14
665.77 Solid and semi-solid products	14
665.9 Miscellaneous organic chemical industries. Polishes. Adhesives. Gums. Resins	15

	Page
665.92 Wax polishes and cleaning preparations	15
665.93 Adhesives. Glues. Gelatin. Proteins	15
665.94 Gums. Resins. Gum resins. Oleoresins. Mucilages. Resinous plant products	15
Alphabetical subject index	18
Related BSI publications	Inside back cover

Foreword

The English version of the Universal Decimal Classification (UDC) is being prepared and published as BS 1000 by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and the Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. It has the approval of the Lake Placid Education Foundation, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives. The English full edition of the UDC is authorized by the International Federation for Documentation (FID), PO Box 30115, 2500 GC, The Hague, Netherlands.

This section is part of the English full edition. It should be used in conjunction with the Abridged English Edition, BS 1000A, which refers to many other subjects of interest not listed in this schedule, and provides a conspectus of the whole scheme, together with an introduction to its use. For further practical information about the principles, application and utilization of the scheme, users should refer to BS 1000C.

This edition of BS 1000[665], which supersedes the 1971 edition, includes modifications authorized in “Extensions and Corrections to the UDC” (FID publication no. 248) up to and including Series 10, No. 1, dated June 1978. Subsequent issues of “Extensions and Corrections to the UDC” should be consulted to keep the schedule up to date. British Standards related to this part of BS 1000 are listed on the inside back cover.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 40, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Scope

Under 665 is classed information about oils, fats and waxes of animal, vegetable and mineral origin, including their properties and processing; perfumes, cosmetics and toilet requisites; and miscellaneous organic chemical industries, including wax polishes, adhesives, gums and resins. Animal husbandry and the cultivation of oil-bearing plants are classed under 63; the extraction of crude mineral oils from the earth is classed under 622; the use of oils, fats and waxes as fuels comes under 662.6/8.

Related subjects

- 543.8 Analysis of organic substances.
Determination of constituents and
reaction properties
- 547.91 Hydrocarbons. Oils. Fats. Waxes.
Balsams. Gums. Carbohydrates.
Glycosides
- 552.578 Hydrocarbons — Petrology
- 553.98 Hydrocarbon deposits. Presence of oil and
gas — Economic geology
- 612.397 Fats — Nutrition
- 613.288 Fats. Fat-containing foods. Butter —
Hygiene
- 615.26 Agents predominantly affecting the
common integument — Medicaments
- 615.3 Medicaments according to their origin
- 621.89 Lubrication
- 622.276 Working of petroleum and other mineral
oil deposits. Petroleum extraction
- 622.32 Liquid and gaseous minerals
- 622.337 Bituminous asphalts, shales. Oil shales.
Ozokerite
- 633.85 Oleaginous plants
- 641.14 Fats — Home economics
- 661.187 Soap industry
- 662.75 Liquid fuels. Mineral oil technology
- 664.3 Edible oils and fats. Margarines. Protein
foodstuffs
- 667.6 Coatings and coating techniques. Paints.
Varnishes. Lacquers

Auxiliary signs and subdivisions

Full information about the common and special auxiliary signs and subdivisions (often abbreviated to “common and special auxiliaries”) will be found in BS 1000A and BS 1000C.

Colon sign of relation. For the classification of information for the public, as in abstracts and bibliographies, maximum use of colon combination rather than of common or special auxiliaries is recommended. The use of the colon sign of relation is preferable for multiple entry systems, as it will help prevent the concealment of information. This usually results in longer notation, however, and for information for more restricted use, the application of auxiliaries, where available, may be simpler and more convenient provided that there is an adequate alphabetical subject index.

Common auxiliaries. The common auxiliaries of language = . . . , form (0 . . .), place (1/9), race and nationality (= . . .), time “. . . ”, point of view .00 . . . , materials –03 . . . and persons –05 . . . are applicable throughout the UDC. However, they should be used mainly to express concepts not otherwise provided for in the schedules.

Special auxiliaries. The –1/–9 special auxiliaries listed under 62 and the .01/.09 special auxiliaries listed under 66 are applicable throughout the schedule. They may be detached from the number under which they are listed and applied to any subdivision of 665 where the result forms a meaningful combination.

Special auxiliaries are also given under 665.14, 665.6 and 665.7. These are applicable only to subdivisions of the number under which they are listed.

Typographic presentation

Small type is used for cancelled numbers and text. The arrow → means either “see” or “see also” according to the context. The symbol ≅ “subdivide as” means that the number preceding it may be subdivided in the same way as, and with meanings analogous to the subdivisions of, the number which follows it.

SCHEDULE

665 Oils. Fats. Waxes.

Adhesives. Gums. Resins

Principal divisions

665.1 GENERALITIES ON OILS, FATS, WAXES
AND PRODUCTS DERIVED FROM THEM

Special auxiliary subdivisions for 665.1

665.1.03/.036 Extraction. Refining [*cancelled*]→66.022,
66.046.1, 66.06665.1.09 Various methods of treatment of oils and fats
665.1.09 $\cong$ 66.09

Principal divisions (continued)

665.11 GENERALITIES ON PRODUCTS DERIVED
FROM OILS, FATS AND WAXES.
CHARACTERISTIC PROPERTIES

.112 Characteristic properties

.1 Vitamin content and nutritional value

.2 Rancidity

.114 Unsaponifiable matter

.117 Oil cake. Extracted meal. Cake from low
pressure expellers

.2 Oil cake

.4 Extracted meal

.6 Cake from low pressure expellers

665.12 FATTY ACIDS. GENERALITIES ON
STEARIC ACID PRODUCTION.122 Production of fatty acids. Separation from
glycerol

.1 Saponification with water

.2 Saponification with lime or magnesia

.3 Saponification under pressure in autoclaves

.4 Saponification with sulphuric acid

.5 Mixed processes. Saponification under pressure
with subsequent acidification

.6 Twitchell processes

.7 Saponification by fermentation

.9 Other processes

.123 Fatty acid synthesis

.2 By oxidation of hydrocarbons

.124 Distillation of fatty acids
665.124 $\cong$ 66.04.126 Separation of solid fatty acids from liquid fatty
acids665.126 $\cong$ 66.06

.127 Various products

.2 Saturated fatty acids

.22 Palmitic acid

.23 Margaric acid

.24 Stearic acid

.4 Unsaturated fatty acids

.42 Oleic acid

.44 Linoleic acid

.46 Linolenic acid

.6 Mixtures of saturated and unsaturated fatty
acids

.8 Stearine pitch

.128 Production of solid fatty acids from liquid fatty
acids

.1 By hydrogenation

.3 By oxidation

665.128.6 Conversion of oleic acid to *isooleic* acid.*Isooleic* acid

.9 Other processes

665.13 GENERALITIES ON WAXES

.135 Synthetic waxes and wax substitutes

665.14/.19 SOLID FATS FOR USE IN ILLUMINATION

*The special auxiliaries for 665.14 are also
applicable to 665.15/.19*

.14 Manufacture of candles in general

Special auxiliary subdivisions for 665.14

665.14.059.2 Preparation of wicks

.4 Drawing of candles

.5 Casting and other methods of shaping candles

.6 Candle casting machines

.7 Special shapes for candles

.72 Hollow candles

.74 Special candles for heating purposes

.9 Dyeing, polishing, finishing of candles

Principal divisions (continued)

665.15 Tallow candles

.16 Stearine candles (stearic acid candles)

.17 Paraffin candles. Spermaceti candles

.171 Paraffin candles

.172 Spermaceti candles. Whale oil candles

.18 Beeswax candles

.181 Small beeswax candles for household use

.182 Large beeswax candles. Alter candles etc.

.19 Other solid fats for use in illumination

For solid alcohol, solid mineral oil→
662.88

.194 Torches

→662.126 Signalling torches. Pitch flares

665.2 OILS, FATS AND WAXES OF ANIMAL
ORIGIN

665.21 OILS OF ANIMAL ORIGIN

.211 Fish oils in general

.213 Fish oils

.1 Herring oil

.2 Menhaden oil. American fish oil

.3 Sardine oil. Japanese fish oil

.4 Sprat oil

.5 Salmon oil

.6 Stickleback oil

.9 Other fish oils

.214 Fish liver oils

.1 Cod liver oil. Hake liver oil

.2 Shark liver oil

.9 Liver oils of other fish

.215 Marine mammalian oils

.1 Whale oil

.14 Whale liver oil

.2 Seal oil

.3 Dolphin oil

.4 Porpoise oil

665.215.9	Oils of other marine mammals	665.323	Non-drying oils of monocotyledons
.216	Amphibian oils. Alligator oil. Crocodile oil	.4	Chufa tuber oil
.218	Horn oils. Hoof oils	.6	Banana oil
.1	Cattle hoof oil (neat's foot oil)	.7	Sabadilla oil
.2	Sheep hoof oil	.324	Non-drying oils of certain dicotyledons
.3	Horse hoof oil	.32	Fagales oils. Hazel nut oil. Acorn oil
.219	Other oils of animal origin	.35	Non-drying Urticales oils. Valldel oil
.1	Egg yolk oils	.7	Ranales oils. Magnoliaceae oils. Lauraceae oils
.2	Crustacian oils	.71	Star anise oil
.5	Insect oils	.75	<i>Rollinia exalbida</i> oil
.9	Oils of other animals	.77	Myristicaceae oils. Californian nutmeg oil.
665.22	FATS OF ANIMAL ORIGIN		<i>Gymnacranthera canrica</i> oil
.221	Beef tallow. Mutton tallow. Greaves	.8	Rhoeadales oils
.1	Beef tallow in general	.83	Capparidaceae oils. Spider flower oil.
.3	Premier jus		Hoorcoorya oil. Natri Cuddaghoo oil from
.4	Oleomargarine		Tamil. Javanese Djucutprossot oil
.5	Crude stearin	.85	Moringaceae oils. Ben oil
.8	Mutton tallow	.325	Non-drying oils of Rosales, Pandales, Geraniales, Sapindales, Rhamnales and Malvales
.222	Pig fat. Lard	.1	Rosales oils, Rosaceae oils in general
.223	Fats of various mammals	.12	<i>Pittosporum coriaccum</i> seed oil
.1	Horse fat	.14	Almond oil
.2	Deer tallow. Reindeer tallow	.15	Apricot kernel oil
.3	Camel fat	.16	Peach kernel oil
.4	Bear fat	.17	Quince kernel oil
.9	Fats of other mammals	.18	Cherry laurel oil
.224	Fats of various birds	.19	Other Rosaceae oils. <i>Moquila tomentosa</i> oil.
.2	Chicken fat		Pear seed oil. Plum kernel oil. Cherry kernel
.4	Duck fat		oil. Icoca oil. Mimosa oil. Parinarium oil. Apple
.6	Goose fat		kernel oil
.9	Fats of other birds. Turkey fat, crane fat etc.	.2	Groundnut oil (arachis oil; peanut oil)
.225	Fats of other creatures	.3	Leguminosae oils other than groundnut oil
.1	Tortoise fat. Turtle fat	.32	Owala oil
.3	Fats of other reptiles	.33	Tonka bean oil
.4	Fish fats. Sardine fat	.34	Polypody oil
.5	Insect fats	.35	Tamarind seed oil
.228	Carcase fats. Bone fats. Skin fats.	.36	Bawcan seed oil
	By-product fats	.37	Pongam, punga or korung oil
.2	Carcase fats	.39	Other Leguminosae oils. Ozombanui oil. Inga
.4	Bone fats		oil. Mungo Park's mimosa oil. <i>Bauhinia</i>
.6	Skin fats. Degras		<i>variegata</i> oil. <i>Bauhinia candida</i> oil. Giant
665.23	WAXES OF ANIMAL ORIGIN		laburnum oil. Bonduc nut oil
.231	Beeswax	.5	Geraniales oils
	→638.1 Beekeeping	.513	<i>Nasturtium</i> oil
.232	Chinese wax. <i>Coccus cerifenus</i> wax	.515	Saccoglottis oil
.233	Meliponese wax. Andaquies wax	.517	Zygophyllaceae oils. Xymenia oil
.236	Other aliphatic waxes	.521	Simarubaceae oil. Simaba cedron (seed) oil
.237	Waxes from marine mammals. Spermaceti	.522	Burseraceae oils
.238	Cholesterol. Lanolin. Wool grease	.524	<i>Canarium decumanum</i> oil
665.3	VEGETABLE OILS, FATS, WAXES AND PHOSPHATIDES	.525	Canary oil
	→665.52/.54 Essential oils	.527	Meliaceae oils in general. <i>Guarea trichilioides</i>
665.32	NON-DRYING VEGETABLE OILS	.528	oil
.321	Non-drying oils of cryptogams	.528	Carapa butter. Tulucuna oil
.2	Mushroom oils. <i>Boletus luridus</i> oil. Ergot oil.	.55	Senega root oil
	False orange oil	.6	Sapindales oils
.28	Lactarius oil	.65	Anacardiaceae oils
.6	Fern oil. <i>Aspidium spinulosum</i> oil	.651	<i>Rhus glabra</i> kernel oil
.8	Non-drying Lycopodiales oils. <i>Lycopodium</i> oil	.652	Chironji oil
.322	Non-drying oils of gymnosperms and conifers	.653	Ajacou oil
.322.7	Juniper berry oil		

665.325.654	Lentiscus oil	665.327.78	Bignoniaceae oils. <i>Pithecoctonium echinatum</i> oil. <i>Zeyheria tuberculosa</i> oil. <i>Stenolobium stans</i> oil. <i>Bignonia flava</i> oil
.655	True pistachio oil. Bladder nut oil		
.656	Mastic pistachio oil	.8	Plantaginaceae oils. Rubiaceae oils
.665	Celastraceae oils. Ducudu oil. Spindle tree oil	.82	Coffee bean oil
.666	<i>Salacia fluminensis</i> oil	.83	<i>Sambucus ebulus</i> oil. Dwarf elderberry oil
.7	Sapindineae oils. Balsamineae oils	.9	Vapachi oil
.724	Sapindaceae oils in general. <i>Paullinia trigonia</i> oil	.328	Other non-drying vegetable oils
.726	Ungnadia oil		665.328 $\cong$ 582
.727	Hippocastanaceae oils. Horse-chestnut oil	.329	Undetermined non-drying vegetable oils.
.76	<i>Impatiens racemosa</i> oil		Chinese butter oil. Ojoc oil. Ceje oil
.9	Malvales oils	665.33	SEMI-DRYING VEGETABLE OILS
.96	Bombacaceae oils in general. Paineira oil.	.331	Semi-drying oils of cryptogams
	Mamunara fat	.332	Semi-drying oils of gymnosperms and conifers
.97	<i>Chorisia speciosa</i> oils. <i>Chorisia peckoltiana</i> oil		Semi-drying oils of monocotyledons
.98	Sterculiaceae oils. <i>Heritiera litoralis</i> oil.	.333	Wheat oil. Wheat germ oil. Rye oil. Millet oil.
	Javanese olive oil. Stink wood oil	.3	Barley oil. Oat oil
.326	Non-drying oils of Parietales, Opuntiales, Myrtiflorae and Umbelliflorae	.4	Maize oil
.1	Theaceae oils. Tea seed oil	.5	Rice oil
.2	Guttiferae oils	.6	Madia oil
.21	Pacory oil	.7	Other Gramineae oils
.22	Kay-doc oil	.8	Como oil
.29	Other Guttiferae oils. <i>Protium heptaphyllum</i> oil. <i>Calophyllum inophyllum</i> oil. <i>Garcinia balansae</i> oil	.9	Other oils of monocotyledons
		.334	Semi-drying oils of certain dicotyledons
.4	Other Parietales oils	.3	Beech nut oil
.42	Flacourtiaceae oils. <i>Maximiliana regia</i> oil.	.5	Buck wheat oil
	Carpotroch oil	.6	Centrospermae oils. Celosia oil. Sugar-beet seed oil
.43	<i>Carica papaya</i> oil	.7	Ranales oils. Ranunculaceae oils. Fennel flower oil
.49	Other Parietales oils	.8	Rhoeadales oils. Cruciferae oils
.7	Myrtiflorae oils	.81	Argemon oil
.72	Pomegranate seed oil	.83	Mustard oil
.78	Poga oil	.85	Wild mustard oil
.82	Terminalia oil	.86	Dodder oil. German sesame oil
.9	Umbelliflorae oils	.87	Pennycress oil
.94	Privet oil	.88	Other Cruciferae oils. Hedge mustard oil.
.327	Non-drying oils of Metachlamydeae and Sympetalae		Black radish oil. Wallflower seed oil
.2	Sapotaceae oils. Argania seed oil. Sapiti oil	.9	Beet oil
.3	Olive oil	.92	Ravison oil
.4	Oleaceae oils other than olive oil	.93	Colza oil
.42	Tatu oil	.94	Rape seed oil
.44	Cola nut oil	.335	Semi-drying oils of Rosales, Pandales, Geraniales, Sapindales, Rhamnales and Malvales
.49	Other Oleaceae oils	.1	Rosales oils. Leguminosae oils
.5	Loganiaceae oils. Gentianaceae oils	.12	Pithecolobium seed oil
.55	Gelsemium root oil	.15	Bean (seed) oil
.56	Nux vomica oil	.16	Clover (seed) oil
.6	Apocynaceae oils	.17	Kino oil
.61	Divicaduru oil	.19	Other Rosaceae oils (except soyabean oil)
.62	Hancornia oil	.2	Soyabean oil
.63	Strophanthus oil	.3	Pandales oils
.67	Exil oil	.4	Geraniales oils
.69	Other Apocynaceae oils. <i>Wrightia antidysenterica</i> oil. <i>Cerbera mangha</i> oil	.41	Geraniineae oils
.7	Tubiflorae oils	.417	Bito oil (zachun)
.72	<i>Pharbitis</i> seed oil	.419	Rutaceae oils. Lemon and orange pip oil
.74	Cordia oil	.421	Kosam oil
.76	<i>Aegiphila obducta</i> oil	.423	Amoora oil
		.44	<i>Hevea</i> seed oil. Rubber seed oil
		.45	Manihot oil (cassava oil)

665.335.46	<i>Jatropha curcas</i> seed oil (Barbados purging nut oil)	665.337.84	Melon (seed) oil. Water-melon oil. Pumpkin oil
.47	Scammony (seed) oil. Spurge oil	.85	Loofah oil
.49	Other Geraniales oils, except castor oil and croton oil	.86	Calabash oil
.5	Castor oil	.87	Cucumber (seed) oil
.6	Croton oil (<i>Croton tiglium</i>)	.89	Other Cucurbitaceae oils. Sandbox tree oil.
.7	Oils of other <i>Croton</i> species, e.g. <i>Croton polyandrus</i> , <i>Croton pavana</i> , <i>Croton oblongifolius</i>	.338	Bryony oil. Bush cucumber oil
.8	Sapindales oils. Rhamnales oils. Malvales oils	665.339	Other semi-drying vegetable oils
.81	<i>Matayba purgans</i> Radek oil		665.338 $\pm$ 582
.82	Grape or raisin stone oil	.34	Undetermined semi-drying vegetable oils
.84	Gonystilaceae oils	.341	DRYING VEGETABLE OILS
.85	Tiliaceae oils. Linden or lime oils. Apeiba (wood, seed) oil. Linden seed oil	.342	Drying oils of cryptogams
.86	Kapok oil	.1	Drying oils of gymnosperms and conifers
.87	Other Bombacaceae oils. Pockwood oil.	.5	Taxaceae oils. Kaya oil. Inukaya oil
	<i>Bombax malabaricum</i> oil	.343	Pinaceae oils. <i>Pinus monophylla</i> (<i>P. fremontiana</i>) oil. Pine seed oil. Spruce (seed) oil. Cedar nut oil
.89	Malvaceae oils. Mallow oil	.344	Drying oils of monocotyledons,
.9	Cotton (seed) oil	.2	e.g. asparagus (seed) oil
.336	Semi-drying oils of Parietales, Opuntiales, Myrtiflorae and Umbelliflorae	.22	Drying oils of certain dicotyledons
.1	Parietales oils. Opuntiales oils	.24	Juglandaceae oils
.3	Thymelaeaceae oils. Mezereon oil	.3	Hickory nut oil
.4	Lythraceae oils. Lawsonia oil	.31	Japanese walnut oil
.5	Lecythidaceae oils	.34	Moraceae oils
.51	Barringtonia oil	.7	Mulberry (seed) oil
.53	Sapucaia oil. Monkey pot oil (paradise nut oil)	.75	Hemp (seed) oil
.54	Brazil nut oil	.78	Ranunculaceae oils
.55	Jequibita oil. Couratari oil	.8	Larkspur oil
.59	Other Lecythidaceae oils	.83	Indian bay oil
.6	Myrtiflorae oils	.84	Rhoeadales oils
.9	Umbelliflorae oils	.9	Rocket oil (night-smelling rocket oil)
.92	Coriander (seed) oil	.92	Mignonette oil. Dyers weed oil
.94	Caraway (seed) oil	.94	Papaveraceae oils. Sarraceniales oils
.95	Aniseed oil	.345	Poppy seed oil
.99	Other Umbelliflorae oils	.1	Horn (or sea) poppy oil
.337	Semi-drying oils of Metachlamydeae and Sympetalae	.12	Drying oils of Rosales, Pandales, Geraniales, Sapindales, Rhamnales and Malvales
.1	Diapensiales oils. Ericales oils. Primulales oils. Plumbaginales oils	.2	Rosales oils. Rosaceae oils. Rose-hip oil.
.2	Ebenales oils. Persimmon oil	.22	Currant (<i>Ribes</i>) oil. Raspberry (seed) oil.
.3	Contortae oils	.24	Blackberry (seed) oil. Mountain ash berry (seed) oil. Strawberry (seed) oil. Gooseberry (seed) oil
.4	Sesame oil (benne oil, gingilli oil, teal oil). Other Pedaliaceae oils	.4	Oiticica oil
.5	Solanaceae oils	.5	<i>For oiticica fat</i> →665.355.135
.51	Tomato seed oil	.52	Papilionatae oils
.52	Paprika oil (capsicum oil)	.53	Yellow acacia oil
.53	Tobacco (seed) oil	.54	White acacia oil
.54	<i>Datura</i> oil	.55	Linseed oil. Flax seed oil
.55	Manaca oil (brunfelsia oil)	.56	Euphorbiaceae oils in general
.59	Other Solanaceae oils	.532	Manketti nut oil
.6	Other Tubiflorae oils	.533	Aleurites oils in general
.7	Plantaginales oils. Rubiales oils	.534	<i>For wood oil</i> →665.345.6
.8	Cucurbitaceae oils	.54	<i>Aleurites cordata</i> oil. Japanese lamp oil
.81	Cadam oil	.55	<i>Aleurites moluccana</i> (<i>A. triloba</i>) oil. Candle nut oil. Cemiri oil
.82	Telfairia oil. Koeme oil	.56	Oil of <i>Aleurites trisperma</i> blanco
.83	Colocynth oil. <i>Sicydium monospermum</i> oil.	.57	Stillingia oil
	<i>Cayaponia cabocla</i> oil		Rubber tree oil. Brazilian seringa oil
			→665.335.44 <i>Hevea</i> seed oil. Rubber seed oil
			Essang oil. Engessang oil
			Jy-Chee oil

665.345.58	Mabea oil	665.353.7/8	Other palm oils
.59	Nea Sana oil. Oil of <i>Joannesia princeps</i> Vell.	.72	Cohune oil
	Camul oil. Tene-Fi oil and other	.74	Mocaya butter
	Euphorbiaceae oils (except wood oil)	.75	<i>Cocos acrocomioides</i> oil
.6	Wood oil. China wood oil. Tung oil	.76	Acrocomia fat
.8	Geraniales oils, e.g. Ngart oil	.77	Maripa fat
.9	Sapindales oils. Rhamnales oils. Malvales oils	.78	Avura oil. Tukum oil
.346	Drying oils of Parietales, Opuntiales, Myrtiflorae and Umbelliflorae	.82	Para butter
.2	Parietales oils	.83	Muriti fat
.22	Dorana oil	.84	Thorn monkey tree fat
.29	<i>Dipterocarpus jourdainii</i> wood oil	.85	Turluru fat
.8	Djamboe leaf oil	.86	Kings palm fat
.347	Drying oils of Metachlamydeae and Sympetaleae	.9	Fats from other monocotyledons
.1	Diapensiales oils. Ericales oils. Primulales oils. Plumbaginales oils. <i>Arbutus</i> oil.	.354	Fats from dicotyledons
	Bilberry or whortleberry (seed) oil	.2	Mkonga oil. Conejo oil
.3	Contortae oils	.3	Magnoliaceae fats. Michelia fat
.31	Isano oil. Ongokea oil	.5	Anonaceae fats
.32	Ash (seed) oil	.52	Fat from <i>Monodora myristica</i> Dun.
.4	Tubiflorae oils in general. Labiatae oils	.54	Sirikaya fat
.45	Perilla oil	.7	Myristicaceae fats
.46	Sage oil (salvia oil)	.71	Nutmeg butter
.47	Hyptis oil	.72	Mace oil
.48	Lallemantia oil	.73	Combo fat
.5	Solanaceae oils. Scrophulariaceae oils	.74	Ochocoa fat
.54	Henbane oil. Belladonna oil	.75	Irya oil
.56	Toadflax oil. Toi oil. Abura oil	.76	Otoba fat
.7	Campanulatae oils. Lobelia oil	.77	Virola fat
.8	Compositae oils. Sunflower oil	.78	Ucuhuba fat. Bicuhyba fat
.9	Other Compositae oils	.79	Other Myristicaceae fats
.92	Thistle oil	.791	<i>Myristica surinamensis</i> fat. Oilnut fat.
.93	Burdock (seed) oil (bardane oil)		Uchuba fat
.94	Millet oil	.8	Lauraceae fats
.95	Echinops oil	.82	Cusu fat
.96	Gingelli oil (Niger oil)	.83	Inucusu fat
.97	Safflower oil (<i>Carthamus</i> oil or bastard saffron oil)	.84	Tangcallac fat
.348	Other drying vegetable oils	.85	Avocado fat. <i>Persea</i> fat
	665.348 $\cong$ 582	.86	Laurel berry tallow
.349	Undetermined vegetable drying oils. Mohamba oil	.87	Laurel oil. Bay oil
665.35	VEGETABLE FATS. OILS WITH HIGH MELTING POINT	.89	Other Lauraceae fats
.351	Fats of cryptogams	.9	Rhoeadales fats. Saraceniales fats. Cleome oil
.1	Fats from bacteria	.355	Fats of Rosales, Pandales, Geraniales, Sapindales, Rhamnales and Malvales
.2	Fats from mushrooms and other fungi	.1	Rosales fats. Pandales fats. Dadap seed fat
.3	Fats from seaweed and other algae	.13	Rosaceae fats
.353	Fats from monocotyledons	.135	Fat from <i>Licania rigida</i> Benth. Oiticica fat
.2	Sorghum fats	.2	Geraniineae fats
.3	Palm fats	.24	Dica butter. Adica fat
.31	Date seed fat	.25	Cay-cay butter. Cochinchina wax. Irvingia butter
.34	Areca nut fat	.26	Tariri fat
.35	Betel nut fat	.3	Meliaceae fats
.4	Palm oil	.32	<i>Melia</i> oil
.5	Palm kernel oil	.33	Champaca fat
.6	Coconut oil. Coconut butter	.34	Mafura tallow
.62	Copra	.35	Cobi butter
.63	Dried, desiccated copra	.36	Meuculio (seed) fat
.65	Dwarf coco palm oil	.5	Other Geraniales fats
		.52	Sioer nut butter
		.53	Malukang butter
		.57	Chinese tallow. Vegetable tallow. Sapium tallow

665.355.6	Sapindales fats in general. Magnifera fat	665.357.43	Mahwa (or moa) butter. Illipe (or Ellipi) oil and fat (<i>Bassia latifolia</i>)
.7	Sapindaceae fats		
.72	<i>Allophyllus</i> racemosus fat. Hangola-del fat	.44	Mowrah (butter) oil (<i>Bassia longifolia</i>)
.73	Soap berry fat	.46	Catiau seed fat
.74	Macassar oil. Cetgac oil. Con oil	.9	Other Metachlamydae fats
.75	Rambutan oil	.358	Other vegetable fats
.76	Dilodendron oil		665.358 $\cong$ 582
.78	Acec oil	.359	Undetermined vegetable fats
.9	Malvales fats	665.36	VEGETABLE WAXES
.93	<i>Bombax aquaticum</i> fat		→665.772 Waxes. Paraffin wax
.94	Boabab fat. Monkey bread tree seed fat	.361	Japan wax. American wax. Ordinary vegetable wax
.96	Basiloxylon fat	.362	Carnauba or Brazilian wax (<i>Copernicia cerifera</i>)
.97	Cacao (cocoa) butter	.363	Palm wax (<i>Ceroxylon andicola</i>)
	→663.91 Cocoa and its products.	.364	Bayberry wax. Candleberry wax. Myrtle tallow (<i>Myrica cerifera</i> wax)
	Chocolate		Occuba wax (<i>Myristica occuba</i> wax)
.356	Fats of Parietales, Opuntiales, Myrtiflorae and Umbelliflorae	.365	Sugar cane wax and other aliphatic waxes
.1	Parietales fats	.366	Candelilla wax. Wax from Mexican <i>Euphorbia antisiphylitica</i> Zucc.
.15	Mene oil. Niam fat	.367	Locally-gathered East Asian plant waxes
.16	Batiputa fat. Gomphia fat		Musa wax. Pisang wax from <i>Musa zebrina</i>
.18	Suari nut fat. Sawari fat. Sawari butter	.369	<i>Balanophora</i> wax
.2	Guttiferae fats	.2	Waxes from the milky juice of the Moraceae, e.g. from species of <i>Artocarpus</i> and <i>Ficus</i> (fig)
.21	Calaba fat	.3	VEGETABLE PHOSPHATIDES
.23	Gamboge butter. Gambogia fat	.4	Lecithin
.24	Cocum butter. Goa butter. Brindoa tallow	665.37	SPECIAL PRODUCTS
.25	Lami butter. Canya butter. African plant butter	.372	Synthetic oils
.26	Symphonia fat	665.38	Synthetic drying oils
.27	Hazina fat	.381	Sulphonated oils, fats and fatty acids
.32	Domba oil. <i>Calophyllum</i> oil. Njambplung oil. Pinnay oil. Ndilo oil. Tacamahac fat	.4	Sulphonated oils and fats. Fatty acids
.33	Mkani fat	.382	Turkey red oils
.34	Bouandjof fat	.2	Sulphonic acids obtained from oils, fats and waxes
.35	Madal oil	.3	Mixtures
.37	Malabar tallow. Vateria fat. Piney tallow	.4	Modified oils
.38	Borneo tallow. Tengcawang tallow	.5	Boiled oils
.4	Flacourtiaceae fats	.383	Polymerized oils
.42	Gynocardia oil (chaulmoogra oil, hydnocarpus oil)	.2	Oxidized oils. Blown oils
.44	Pitjung oil	.3	Sulphurized oils
.46	Various <i>Hydnocarpus</i> fats	.4	ESSENTIAL OILS. PERFUMERY. COSMETICS
.47	<i>Hydnocarpus</i> seed fat	.8	<i>Further particulars may be denoted by the .0 special auxiliaries listed under 66, e.g.</i>
.5	Other Parietales fats	665.5	665.5.02 Pretreatment
.8	Myrtiflorae fats. Chignite butter		2
.357	Fats of Metachlamydeae and Sympetalae		.06 Extraction, refining etc.
.3	Sapotaceae fats	665.52/.54	ESSENTIAL OILS
.31	Njave butter	665.52	NATURAL ESSENTIAL OILS
.32	Adjab fat		→665.3 Vegetable oils, fats and waxes
.33	<i>Mimusops elengi</i> fat. Mulsari fat	.522	Essential oils of cryptogams
.34	Moabi fat	.523	Essential oils of gymnosperms and conifers
.35	Surin fat	.5	Atlas, Deodar and Lebanon cedar wood oils
.36	Cansiva oil	.7	Essential oils of Cupressaceae
.37	<i>Palaquium</i> fat	.72	Oil of cedar wood
.371	Balam tallow from <i>P. pisang</i> Burck	.73	Oil of cedar leaf
.372	Suntei tallow from <i>P. oleosum</i> Blanco	.74	Oil of cypress
.373	Njatu tallow from <i>P. oblongifolium</i> Burck	.75	Oil of juniper berry
.4	<i>Bassia</i> (Indian butter tree) fats and oils	.76	Oil of savin
.41	Shea butter. Carite butter. Galam butter. Bambritte butter. Nungu butter (<i>Bassia parkii</i>)		
.42	Fulwa (phulwara) butter; Ghea butter (Korean butter, Indian butter) (<i>Bassia butyracea</i>)		
	→637.255 Ghea butter — Agriculture		

.77	Oil of thuja (oil of white cedar, oil of arbor vitae)	.162	Oil of bitter almond
.79	Other oils of Cupressaceae	665.526.164	Oil of cherry laurel
665.524	Essential oils of monocotyledons	.182	Oil of Peru balsam
.2	Essential oils of Gramineae	.184	Oil of Tolu balsam
.22/.28	Essential oils of <i>Andropogon (Cymbopogon)</i> species	.2	Essential oils of Geraniales
.22	Oil of citronella	.22	Oil of geranium
.221	Oil of Java citronella	.24	Oil of guaiac wood
.222	Oil of Ceylon citronella	.3	Essential oils of Rutaceae
.23	Oil of <i>Cymbopogon winterianus</i> (Jowitt's oil of citronella)	.31	Oil of rue
.24	Oil of palmarosa (oil of East Indian geranium, oil of Indian grass, oil of rusa)	.32	Oil of buchu leaf
.25	Oil of gingergrass	.33	Oil of West Indian sandalwood (oil of amyris)
.26	Oil of lemongrass (oil of Indian verbena)	.4	Essential oils of <i>Citrus</i> species
.27	Oil of vetiver	.42	Oils of citrus
.28	Other oils of <i>Andropogon (Cymbopogon)</i> species	.422	Oil of bergamot
.281	Oil of camel grass	.444	Oil of sweet orange
.282	Oil of <i>Andropogon odoratus</i>	.452	Oil of neroli (orange flower oil)
.283	Oil of <i>Andropogon laniger</i> Desf.	.454	Oil of petitgrain
.29	Other oils of Gramineae	.472	Oil of citron
.4	Essential oils of Liliiflorae	.474	Oil of lemon
.41	Oil of calamus	.476	Oil of lime
.49	Oil of concrete orris	.482	Oil of mandarin
.8	Essential oils of Zingiberaceae	.484	Oil of mandarin leaf (oil of mandarin petitgrain)
.83	Oil of ginger	.5	Essential oils of Burseraceae
.84	Oil of cardamom	.52	Oil of olibanum
.525	Essential oils of dicotyledons	.53	Oil of linaloe
.2	Oils of Piperaceae	.54	Oil of myrrh
.22	Oil of betel	.55	Oil of elemi
.23	Oil of cubeb	.6	Essential oils of Sapindales, Malvales and Parietales
.24	Oil of pepper	.62	Oil of mastic
.3	Oil of hop. Oil of sandalwood	.64	Oil of copaiba
.33	Oil of hop	.66	Oil of ambrette seed
.36	Oil of sandalwood (oil of East Indian sandalwood, oil of santal)	.68	Oil of Borneo camphor
.4	Essential oils of Magnoliaceae, Anonaceae and Myristicaceae	.69	Oil of gurjun balsam
.41	Oil of champaca flower	.7	Essential oils of Myrtiflorae
.43	Oil of cananga (ylang-ylang oil)	.72	Oil of myrtle
.45	Oil of mace	.73	Oil of bay (oil of myrcia)
.46	Oil of nutmeg	.74	Oil of pimento (allspice oil)
.5	Oil of cinnamon. Oil of cassia. Oil of rosewood	.752	Oil of clove
.52	Oil of cassia (oil of Chinese cinnamon)	.754	Oil of clove stem
.53	Oil of cinnamon (oil of Ceylon cinnamon)	.77	Oil of cajuput
.56	Oil of Brazilian rosewood	.78	Oil of eucalyptus
.57	Oil of Cayenne rosewood	.8	Essential oils of Umbelliferae
.6	Oil of sassafras	.81	Oil of coriander
.7	Oils of Lauraceae	.82	Oil of cumin
.72	Oil of camphor	.83	Oil of parsley
.74	Oil of bay-laurel	.84	Oil of ajowan
.8	Essential oils of Rhoeadales and Cruciferae	.85	Oil of caraway
.85	Oil of mustard	.86	Oil of anise (oil of aniseed)
.852	Oil of black mustard	.87	Oil of fennel
.853	Oil of white mustard	.882	Oil of dill
.526	Essential oils of Rosales, Geraniales, Sapindales, Malvales, Parietales, Myrtiflorae and Umbelliflorae	.884	Oil of East Indian dill
.1	Essential oils of Rosales	.891	Oil of celery
.12	Oil of storax	.892	Oil of celery seed
.14	Oil of spiraea	.893	Oil of celery leaf
.15	Oil of rose (otto of rose)	.9	Essential oils of <i>Peucedanum</i> and <i>Daucus</i> species
		.92	Angelica
		.922	Oil of angelica
		.924	Oil of Japanese angelica
		.94	Oil of galbanum
		.96	Oil of opopanax

.98	Oil of carrot	665.574	Synthetic perfumes
665.527	Essential oils of Metachlamydeae and Sympetalae		<i>Further particulars may be denoted by colon combination with the subdivisions of 547</i>
.1	Oil of wintergreen (oil of gaultheria)	.577	Perfuming
.2	Oil of jasmin		<i>Further particulars may be denoted by colon combination, e.g.</i>
.3	Oils of Verbenaceae		665.577:675 Perfuming of leather
.32	Oil of verbena	665.58	COSMETICS. TOILET REQUISITES
.5	Oils of Labiatae		→615.26 Agents predominantly affecting the common integument — Medicaments
.51	Oil of rosemary		661.187 Soap industry
.53	Oil of spike lavender (oil of spike)		665.57 Perfumery. Perfumes. Perfuming
.54	Oil of lavender	.582	Toilet waters. Bath additives. Other perfumed materials
.56	Oil of clary sage	.2	Toilet waters. Scented waters
.57	Oil of sage	.22	Toilet waters with high alcohol content, e.g. eau de Cologne, lavender water
.6	Essential oils of Labiatae. Oils of savory and patchouli	.24	Toilet waters with low alcohol content, e.g. face lotions, shaving lotions
.61	Oil of melissa (oil of balm)	.3	Deodorants. Antiperspirants
.62	Oil of hyssop	.4	Bath additives
.632	Oil of sweet marjoram	.42	Solid perfumed additives. Bath salts and tablets, including effervescent preparations
.634	Oil of origanum (oil of wild marjoram)	.43	Liquid and emulsified perfumed additives.
.64	Oil of thyme		Bath essences. Bath oils
.652	Oil of spearmint	.46	Medicinal additives in solid or liquid form.
.654	Oil of peppermint		Reducing and slimming salts. Natural spring salts. Sulphur, iron and tar baths.
.656	Oil of pennyroyal		Carbon dioxide and oxygen baths. Foot baths
.67	Oil of patchouli	.7	Smelling salts. Smelling sachets
.72	Oil of basil (oil of sweet basil)	.72	Smelling salts
.8	Valerian oil	.73	Smelling sachets. Scent bags etc.
.9	Essential oils of Compositae	.8	Perfumed fabrics, pencils and sticks
.92	Oil of inula	.82	Perfumed fabrics (paper, leather etc.)
.93	Oil of camomile	.84	Perfumed pencils and sticks. Cologne sticks. Menthol sticks
.94	Oil of tansy	.583	Dentifrices. Mouthwashes. Toothpastes. Products for the care of mouth and teeth
.95	Oil of wormwood (oil of absinth)	.2	Mouthwashes. Mouthwash tablets etc.
.96	Oil of artemisia	.22	Aromatic, antiseptic and oxidizing mouthwashes
.97	Oil of tarragon	.24	Mouthwash pills. Mouthwash tablets.
.98	Oil of arnica flower		Mouthwash powders
.528	Essential oils of other plants	.26	Pills for sweetening the breath
	668.528 $\cong$ 58	.4	Toothpastes, toothpowders. Products for the care of the teeth
.1	Essential oils of undetermined plants	.42	Toothpowders (insoluble, soluble, oxidizing)
.529	Scents of animal origin. Animal perfume fixatives	.44	Toothpastes. Plastic materials containing insoluble solids acting as scouring agents (soap-containing or soapless; foaming or non-foaming)
	→665.2 Oils, fats and waxes of animal origin	.46	Toothsoaps
.2	Ambergris	.584	Skin creams. Make-up. Powder. Nail varnish
.4	Musk. Civet	.2	Skin creams. Face lotions. Make-up
.8	Various essential oils of animal origin	.22	Solid emulsion-based creams.
.82	Hartshorn oil		Oil-continuous (water-in-oil) emulsions (fatty creams). Water-continuous (oil-in-water) emulsions (non-fatty creams). Creams with additives of, e.g. vitamins, hormones
.84	Dippel's oil	.223	Shaving creams and creams for the care of the skin after shaving
665.53	PRINCIPAL CONSTITUENTS OF ESSENTIAL OILS	.24	Liquid emulsion-based creams.
	<i>Further particulars may be denoted by colon combination with the subdivisions of 547, especially 547.913</i>		Oil-continuous (water-in-oil), water-continuous (oil-in-water) emulsions.
665.54	SYNTHETIC ESSENTIAL OILS, E.G. ARTIFICIAL MUSKS		
	<i>Further particulars may be denoted by colon combination with the subdivisions of 547</i>		
665.56	FRUIT ESSENCES		
.562	Natural fruit essences		
.564	Synthetic fruit essences		
665.57	PERFUMERY. PERFUMES. PERFUMING		
.572	Natural perfumes		
	<i>Further particulars may be denoted by colon combination with the subdivisions of 665.52</i>		