SECTION C — CHEMISTRY; METALLURGY

C08 ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON

C08K USE OF INORGANIC OR NON-MACROMOLECULAR ORGANIC SUBSTANCES AS COMPOUNDING INGREDIENTS (paints, inks, varnishes, dyes, polishes, adhesives C09) [2]

Note(s) [2, 4, 6, 2006.01]

- 1. In this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, an ingredient is classified in the last appropriate place.
- 2. In this subclass:

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- a mixture of ingredients is classified in the most indented group covering all the essential ingredients of the mixture, e.g.:
 a mixture of a monohydroxylic and a polyhydroxylic alcohol C08K 5/05;
 - a mixture of two polyhydroxylic alcohols C08K 5/053;
 - a mixture of an alcohol and an ether C08K 5/04;
 - a mixture of an ether and an amine C08K 5/00;
 - a mixture of an amine and a metal C08K 13/02;

Oxygen-containing compounds, e.g. metal

carbonyls [2, 2006.01]

- ammonium salts are classified in the same way as metal salts.
- 3. In this subclass, any ingredient of a mixture which is not identified by the classification according to Note (2) above, and the use of which is determined to be novel and non-obvious, must also be classified in this subclass according to Note (1). The ingredient can be either a single compound or a composition in itself.
- 4. Any ingredient of a mixture which is not identified by the classification according to Notes (2) or (3) above, and which is considered to represent information of interest for search, may also be classified in this subclass according to Note (1). This can, for example, be the case when it is considered of interest to enable searching of mixtures using a combination of classification symbols. Such non-obligatory classification should be given as "additional information".

class	sification should be given as "additional information".		
3/00	Use of inorganic substances as compounding ingredients [2, 2006.01, 2018.01]	3/20 3/22	Oxides; Hydroxides [2, 2006.01]of metals [2, 2006.01]
3/01	• characterised by their specific function [2018.01]	3/24	• • Acids; Salts thereof [2, 2006.01]
3/011	 Crosslinking or vulcanising agents, e.g. 	3/26	• • • Carbonates; Bicarbonates [2, 2006.01]
	accelerators [2018.01]	3/28	 Nitrogen-containing compounds [2, 2006.01]
3/012	 Additives activating the degradation of the macromolecular compounds [2018.01] 	3/30	 Sulfur-, selenium-, or tellurium-containing compounds [2, 2006.01]
3/013	Fillers, pigments or reinforcing	3/32	 Phosphorus-containing compounds [2, 2006.01]
D /01.1	additives [2018.01]	3/34	• Silicon-containing compounds [2, 2006.01]
3/014	 Stabilisers against oxidation, heat, light or ozone [2018.01] 	3/36	• • Silica [2, 2006.01]
3/015	Biocides (macromolecular substances as carriers	3/38	 Boron-containing compounds [2, 2006.01]
3/013	for biocide material A01N 25/10) [2018.01]	3/40	• Glass [2, 2006.01]
3/016	 Flame-proofing or flame-retarding additives [2018.01] 	5/00	Use of organic ingredients [2, 2006.01]
3/017	• • Antistatic agents [2018.01]	5/01	• Hydrocarbons [2, 2006.01]
3/02	• Elements [2, 2006.01]	5/02	Halogenated hydrocarbons [2, 2006.01]
3/04	• Carbon [2, 2006.01]	5/03	• • aromatic [2, 2006.01]
3/06	• • Sulfur [2, 2006.01]	5/04 5/05	• Oxygen-containing compounds [2, 2006.01]
3/08	• • Metals [2, 2006.01]	5/053	Alcohols; Metal alcoholates [2, 2006.01]Polyhydroxylic alcohols [6, 2006.01]
3/10	• Metal compounds [2, 2006.01, 2018.01]	5/057	• • • Metal alcoholates [6, 2006.01]
3/105	• • Compounds containing metals of Groups 1 to 3 or	5/06	• Ethers; Acetals; Ketals; Ortho-esters [2, 2006.01]
	of Groups 11 to 13 of the Periodic Table [2018.01]	5/07	 Aldehydes; Ketones [2, 2006.01]
3/11	Compounds containing metals of Groups 4 to 10	5/08	• • • Quinones [2, 2006.01]
	or of Groups 14 to 16 of the Periodic	5/09	Carboxylic acids; Metal salts thereof; Anhydrides
2/12	Table [2018.01]	3, 33	thereof [2, 2006.01]
3/12 3/14	 Hydrides [2, 2006.01] Carbides [2, 2006.01]	5/092	• • • Polycarboxylic acids [6, 2006.01]
3/14	 Halogen-containing compounds [2, 2006.01] 	5/095	Carboxylic acids containing
5/10	rialogen-containing compounds [2, 2000.01]		halogens [6, 2006.01]

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halogens [6, 2006.01]

5/098 • • • Metal salts of carboxylic acids **[6, 2006.01]**

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E/10 Estava Ethan actors [2, 2006 01]	E/2/1E Eive membered rings [E 2006 01]
5/10 • Esters; Ether-esters [2, 2006.01]	5/3415 • • • Five-membered rings [5, 2006.01]
5/101 • • • of monocarboxylic acids [6, 2006.01]	5/3417 • • • • condensed with carbocyclic
5/103 • • • • with polyalcohols [6, 2006.01]	rings [5, 2006.01]
5/105 • • • with phenols [6, 2006.01]	5/3432 • • • • Six-membered rings [5, 2006.01]
5/107 • • • • with polyphenols [6, 2006.01]	5/3435 • • • • • Piperidines [5, 2006.01]
5/109 • • • of carbonic acid [6, 2006.01]	5/3437 • • • • condensed with carbocyclic
5/11 • • • of acyclic polycarboxylic acids [2, 2006.01]	rings [5, 2006.01]
5/12 • • • of cyclic polycarboxylic acids [2, 2006.01]	5/3442 • • • having two nitrogen atoms in the
5/13 • • Phenols; Phenolates [2, 2006.01]	ring [5, 2006.01]
5/132 • • • Phenols containing keto groups [6, 2006.01]	5/3445 • • • Five-membered rings [5, 2006.01]
5/134 • • • Phenols containing ester groups [6, 2006.01]	5/3447 • • • • condensed with carbocyclic
5/136 • • • Phenols containing halogens [6, 2006.01]	rings [5, 2006.01]
5/138 • • • Phenolates [6, 2006.01]	5/3462 • • • Six-membered rings [5, 2006.01]
5/14 • • Peroxides [2, 2006.01]	5/3465 • • • • condensed with carbocyclic
5/15 • Heterocyclic compounds having oxygen in the	rings [5, 2006.01]
ring [2, 2006.01]	5/3467 • • having more than two nitrogen atoms in the
5/151 • • • having one oxygen atom in the	ring [5, 2006.01]
ring [7, 2006.01]	5/3472 • • • Five-membered rings [5, 2006.01]
5/1515 • • • • Three-membered rings [7, 2006.01]	5/3475 • • • • condensed with carbocyclic
5/1525 • • • • Four-membered rings [7, 2006.01]	rings [5, 2006.01]
——————————————————————————————————————	5/3477 • • • Six-membered rings [5, 2006.01]
5/1535 • • • • Five-membered rings [7, 2006.01]	5/3492 • • • • Triazines [5, 2006.01]
5/1539 • • • • Cyclic anhydrides [7, 2006.01]	5/3495 • • • • condensed with carbocyclic
5/1545 • • • Six-membered rings [7, 2006.01]	rings [5, 2006.01]
5/156 • • having two oxygen atoms in the	5/35 • • • having also oxygen in the ring [2, 2006.01]
ring [7, 2006.01]	5/353 • • • • Five-membered rings [5, 2006.01]
5/1565 • • • Five-membered rings [7, 2006.01]	5/357 • • • • Six-membered rings [5, 2006.01]
5/1575 • • • Six-membered rings [7, 2006.01]	5/36 • Sulfur-, selenium-, or tellurium-containing
5/159 • • • having more than two oxygen atoms in the	compounds [2, 2006.01]
ring [7, 2006.01]	5/37 • • Thiols [2, 7, 2006.01]
5/16 • Nitrogen-containing compounds [2, 2006.01]	5/372 • • Sulfides [6, 7, 2006.01]
5/17 • • Amines; Quaternary ammonium	5/375 • • • containing six-membered aromatic
compounds [2, 2006.01]	rings [6, 7, 2006.01]
5/18 • • • with aromatically bound amino	5/378 • • • containing heterocyclic rings [6, 7, 2006.01]
groups [2, 2006.01]	
5/19 • • • Quaternary ammonium	5/38 • Thiocarbonic acids; Derivatives thereof, e.g. xanthates [2, 2006.01]
compounds [2, 2006.01]	
5/20 • • Carboxylic acid amides [2, 2006.01]	5/39 • Thiocarbamic acids; Derivatives thereof, e.g. dithiocarbamates [2, 2006.01]
Ö	5/40 • • Thiuramsulfides; Thiurampolysulfides, e.g.
5/205 • • Compounds containing -O-C-N groups, e.g.	
5/205 • • Compounds containing O-C-IN groups, e.g. carbamates [6, 2006.01]	>n−Ë-(2) [×] -Ë-n<
	compounds containing S S
5/21 • Urea; Derivatives thereof, e.g. biuret [2, 2006.01]	groups [2, 2006.01]
5/22 • Compounds containing nitrogen bound to another	5/405 • • Thioureas; Derivatives thereof [6, 2006.01]
nitrogen atom [2, 2006.01]	5/41 • • Compounds containing sulfur bound to
5/23 • • • Azo-compounds [2, 2006.01]	oxygen [2, 2006.01]
5/24 • • • Derivatives of hydrazine [2, 2006.01]	5/42 • • • Sulfonic acids; Derivatives thereof [2, 2006.01]
5/25 • • • Carboxylic acid hydrazides [2, 2006.01]	5/43 • • Compounds containing sulfur bound to
5/26 • • • Semicarbazides [2, 2006.01]	nitrogen [2, 2006.01]
5/27 • • • Compounds containing a nitrogen atom bound	5/435 • • • Sulfonamides [6, 2006.01]
to two other nitrogen atoms, e.g. diazoamino-	5/44 • • • Sulfenamides [2, 2006.01]
compounds [2, 2006.01]	5/45 • Heterocyclic compounds having sulfur in the
5/28 • • • • Azides [2, 2006.01]	ring [2, 2006.01]
5/29 • • Compounds containing carbon-to-nitrogen double	5/46 • • • with oxygen or nitrogen in the ring [2, 2006.01]
bonds [2, 2006.01]	
5/30 • • • Hydrazones; Semicarbazones [2, 2006.01]	5/47 • • • • Thiazoles [2, 2006.01]
5/31 • • • Guanidine; Derivatives thereof [2, 2006.01]	5/48 • • Selenium- or tellurium-containing
5/315 • • Compounds containing carbon-to-nitrogen triple	compounds [2, 2006.01]
bonds [6, 2006.01]	• Phosphorus-containing compounds [2, 2006.01]
5/32 • • Compounds containing nitrogen bound to	5/50 • • Phosphorus bound to carbon only [2, 5, 2006.01]
oxygen [2, 2006.01]	5/51 • • Phosphorus bound to oxygen [2, 2006.01]
5/33 • • • Oximes [2, 2006.01]	5/52 • • • bound to oxygen only [2, 2006.01]
5/34 • Heterocyclic compounds having nitrogen in the	5/521 • • • Esters of phosphoric acids, e.g. of
ring [2, 2006.01]	H ₃ PO ₄ [5, 2006.01]
5/3412 • • having one nitrogen atom in the	5/523 • • • • with hydroxyaryl
ring [5, 2006.01]	compounds [5, 2006.01]
O. / i	

5/524	• • • Esters of phosphorous acids, e.g. of	5/58	• • • containing sulfur [2, 2006.01]
	H ₃ PO ₃ [5, 2006.01]	5/59	Arsenic- or antimony-containing
5/526	0 0 0		compounds [2, 2006.01]
E /EDE	compounds [5, 2006.01]	7/00	Use of ingredients characterised by
	• • • Cyclic esters [5, 2006.01]	7/00	shape [2, 2006.01]
5/529	• • • Esters containing heterocyclic rings not	7/02	• Fibres or whiskers [2, 2006.01]
	representing cyclic esters of phosphoric or phosphorous acids [5, 2006.01]	7/04	• • inorganic [2, 2006.01]
5/53	• • • bound to oxygen and to carbon	7/06	• • • Elements [2, 2006.01]
3733	only [2, 5, 2006.01]	7/08	Oxygen-containing compounds [2, 2006.01]
5/5313	3 • • • Phosphinic compounds, e.g.	7/10	• • • Silicon-containing compounds [2, 2006.01]
	R ₂ =P(:O)OR' [5, 2006.01]	7/12	• • • • Asbestos [2, 2006.01]
5/5317	7 • • • • Phosphonic compounds, e.g. R—P(:O)	7/14	• • • Glass [2, 2006.01]
	(OR') ₂ [5, 2006.01]	7/16	• Solid spheres [2, 2006.01]
5/5333	3 • • • • Esters of phosphonic acids [5, 2006.01]	7/18	• • inorganic [2, 2006.01]
5/5337	7 • • • • containing also halogens [5, 2006.01]	7/20	• • • Glass [2, 2006.01]
5/5353	3 • • • • • containing also nitrogen [5, 2006.01]	7/22	• Expanded, porous or hollow particles [2, 2006.01]
	7 • • • • • cyclic [5, 2006.01]	7/24	• • inorganic [2, 2006.01]
5/5373	3 • • • • containing heterocyclic rings not	7/26	• • • Silicon-containing compounds [2, 2006.01]
	representing cyclic esters of	7/28	• • • Glass [2, 2006.01]
_ /	phosphonic acids [5, 2006.01]		•
5/53//	7 • • • Phosphinous compounds, e.g. R ₂ =P—	9/00	Use of pretreated ingredients (use of pretreated fibrous
E /E202	OR' [5, 2006.01] 3 • • • • Phosphonous compounds, e.g. R—		materials in the manufacture of articles or shaped
3/3333	P(OR') ₂ [5, 2006.01]		materials containing macromolecular substances C08J 5/06) [2, 2006.01]
5/5397	7 • • • • Phosphine oxides [5, 2006.01]	9/02	• Ingredients treated with inorganic
	8 • • Phosphorus bound to sulfur [5, 2006.01]	3/02	substances [2, 2006.01]
	9 • • Phosphorus bound to nitrogen [5, 2006.01]	9/04	Ingredients treated with organic
5/54	• Silicon-containing compounds [2, 2006.01]		substances [2, 2006.01]
	 containing oxygen [7, 2006.01] 	9/06	• • with silicon-containing compounds [2, 2006.01]
	5 • • containing at least one Si—O bond [7, 2006.01]	9/08	• Ingredients agglomerated by treatment with a binding
	9 • • • containing at least one Si—C		agent [2, 2006.01]
	bond [7 , 2006.01]	9/10	 Encapsulated ingredients [2, 2006.01]
5/5425	5 • • • containing at least one C=C bond [7, 2006.01]	9/12	 Adsorbed ingredients [2, 2006.01]
5/5435	5 • • • containing oxygen in a ring [7, 2006.01]	11/00	The of in our directs of realises are constitutions of
5/544	 containing nitrogen [7, 2006.01] 	11/00	Use of ingredients of unknown constitution, e.g. undefined reaction products [2, 2006.01]
5/5445	5 • • • containing at least one Si—N bond [7, 2006.01]		undermed reaction products [2, 2000.01]
	🗓	13/00	Use of mixtures of ingredients not covered by any
5/5455	5 • • • containing at least one Ŋ-Ü-		single one of main groups C08K 3/00-C08K 11/00,
	group [7, 2006.01]		each of these compounds being essential [4, 2006.01]
	5 • • containing at least one C=N bond [7, 2006.01]	13/02	 Organic and inorganic ingredients [4, 2006.01]
	5 • • • containing at least one C≡N bond [7, 2006.01]	13/04	Ingredients characterised by their shape and organic
5/548	9	40.406	or inorganic ingredients [4, 2006.01]
5/549	0 0 1	13/06	• Pretreated ingredients and ingredients covered by the
5/55	 Boron-containing compounds [2, 2006.01] 	13/08	main groups C08K 3/00-C08K 7/00 [4, 2006.01]
5/56	Organo-metallic compounds, i.e. organic compounds	13/00	 Ingredients of unknown constitution and ingredients covered by the main groups C08K 3/00-
F /	containing a metal-to-carbon bond [2, 2006.01]		C08K 9/00 [4, 2006.01]
5/57	• • Organo-tin compounds [2, 2006.01]		

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