CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

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)

NOTES

- 1. In this subclass, in the absence of an indication to the contrary, an ingredient is classified in the last appropriate place.
- 2. In this subclass:
 - 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 monohydric and a polyhydric alcohol C08K 5/05
 - a mixture of two polyhydric 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

{This note is applied only for mixtures with more than three essential ingredients. Mixtures with two or three ingredients are classified in the appropriate groups of <u>C08K</u>, e.g. a mixture of Al2O3, an ether and an amine is classified in <u>C08K 3/22</u>, <u>C08K 5/06</u> and <u>C08K 5/17</u>}

- · 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. ".{This IPC Note does not apply in CPC}
- 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".{This IPC Note does not apply in CPC}
- 5. {In this subclass, combination sets [C-Sets] are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the definitions of C08K}
- 6. {In this subclass, organic acid salts, alcoholates, phenolates or mercaptides are classified in the groups or subgroups of the parent compounds}

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

3/00	Use of inorganic substances as compounding ingredients	3/014 3/015	 Stabilisers against oxidation, heat, light or ozone Biocides (macromolecular substances as carriers
	NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K.	3/016 3/017 3/02 2003/023 2003/026	for biocide material A01N 25/10) • Flame-proofing or flame-retarding additives • Antistatic agents • Elements • {Silicon} • {Phosphorus}
3/01 3/011 3/012	 characterized by their specific function Crosslinking or vulcanising agents, e.g. accelerators Additives activating the degradation of the macromolecular compounds 	3/04 3/041 3/042 3/043	 Carbon {Carbon nanotubes} {Graphene or derivatives, e.g. graphene oxides} {Carbon nanocoils}
3/013	Fillers, pigments or reinforcing additives	3/044	• • • {Carbon nanohorns or nanobells}

2/045	(T 11)	2002/2206
3/045	• • {Fullerenes}	2003/2286 {of silver}
3/046	• • • {Carbon nanorods, nanowires, nanoplatelets or	2003/2289 {of cobalt}
2/0-	nanofibres}	2003/2293 {of nickel}
3/06	Sulfur	2003/2296 {of zinc}
3/08	Metals	3/24 . Acids; Salts thereof $\{(\underline{\text{C08K 3/16}} \text{ takes})\}$
2003/0806	{Silver}	precedence)}
2003/0812	{Aluminium}	3/26 Carbonates; Bicarbonates
2003/0818	{Alkali metal}	2003/262 {Alkali metal carbonates}
2003/0825	· · · · {Potassium}	2003/265 {Calcium, strontium or barium carbonate}
2003/0831	{Gold}	2003/267 {Magnesium carbonate}
2003/0837	{Bismuth}	3/28 • Nitrogen-containing compounds
2003/0843	• • • {Cobalt}	2003/282 • • {Binary compounds of nitrogen with aluminium}
2003/085	{Copper}	2003/285 • • {Ammonium nitrates}
2003/0856	{Iron}	2003/287 • {Calcium, strontium or barium nitrates}
2003/0862	• • • {Nickel}	3/30 • Sulfur-, selenium- or tellurium-containing
2003/0868	· · · {Osmium}	compounds
2003/0875	• • {Antimony}	2003/3009 • • {Sulfides}
2003/0881	• • {Titanium}	2003/3018 • • • {of magnesium, calcium, strontium or barium}
2003/0887	{Tungsten}	2003/3027 • • • { of cadmium }
2003/0893	{Zinc}	2003/3036 • • • { of zinc}
3/10	. Metal compounds	2003/3045 {Sulfates}
3/105	Compounds containing metals of Groups 1 to 3 or	2003/3054 {Ammonium sulfates}
	of Groups 11 to 13 of the Periodic Table	2003/3063 {Magnesium sulfate}
3/11	Compounds containing metals of Groups 4 to 10	2003/3072 {Iron sulfates}
	or of Groups 14 to 16 of the Periodic Table	2003/3081 {Aluminum sulfate}
3/12	Hydrides	2003/309 • • {Sulfur containing acids}
3/14	Carbides	3/32 • Phosphorus-containing compounds
3/16	Halogen-containing compounds	2003/321 • • {Phosphates}
2003/162	• • {Calcium, strontium or barium halides, e.g.	2003/322 {Ammonium phosphate}
	calcium, strontium or barium chloride}	2003/323 {Ammonium polyphosphate}
2003/164	• • {Aluminum halide, e.g. aluminium chloride}	2003/324 {Alkali metal phosphate}
2003/166	• • {Magnesium halide, e.g. magnesium chloride}	2003/325 {Calcium, strontium or barium phosphate}
2003/100	• • {Wagnesium nande, e.g. magnesium emoride}	2003/323 • • Calcium, submitum of barrum phosphate?
2003/168	{Zinc halides}	
		2003/326 {Magnesium phosphate}
2003/168	• • {Zinc halides}	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate}
2003/168	. {Zinc halides}. Oxygen-containing compounds, e.g. metal	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals}
2003/168 3/18 3/20	 • {Zinc halides} • Oxygen-containing compounds, e.g. metal carbonyls • Oxides; Hydroxides {(graphene oxides C08K 3/042)} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids}
2003/168 3/18 3/20 3/22	 • {Zinc halides} • Oxygen-containing compounds, e.g. metal carbonyls • Oxides; Hydroxides {(graphene oxides C08K 3/042)} • • of metals 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds
2003/168 3/18 3/20 3/22 2003/2203	 • {Zinc halides} • Oxygen-containing compounds, e.g. metal carbonyls • Oxides; Hydroxides {(graphene oxides C08K 3/042)} • • • • of metals • • • {of lithium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206	 . {Zinc halides} . Oxygen-containing compounds, e.g. metal carbonyls . Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221	 . {Zinc halides} . Oxygen-containing compounds, e.g. metal carbonyls . Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221	 . {Zinc halides} . Oxygen-containing compounds, e.g. metal carbonyls . Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2213	 . {Zinc halides} . Oxygen-containing compounds, e.g. metal carbonyls . Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2213 2003/2217 2003/222	 • {Zinc halides} • Oxygen-containing compounds, e.g. metal carbonyls • Oxides; Hydroxides {(graphene oxides C08K 3/042)} • • of metals • • {of lithium} • • • {of calcium, strontium or barium} • • • {of rare earth metal} • • • {of magnesium} • • • {Magnesia, i.e. magnesium oxide} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2213 2003/2217 2003/222	 • {Zinc halides} • Oxygen-containing compounds, e.g. metal carbonyls • Oxides; Hydroxides {(graphene oxides C08K 3/042)} • • of metals • • {of lithium} • • {of calcium, strontium or barium} • • {of rare earth metal} • • • {of cerium} • • • {of magnesium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/222 2003/2224	 • {Zinc halides} • Oxygen-containing compounds, e.g. metal carbonyls • Oxides; Hydroxides {(graphene oxides C08K 3/042)} • • of metals • • {of lithium} • • • {of calcium, strontium or barium} • • • {of rare earth metal} • • • {of magnesium} • • • {Magnesia, i.e. magnesium oxide} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/222 2003/2224 2003/2227	 • {Zinc halides} • Oxygen-containing compounds, e.g. metal carbonyls • Oxides; Hydroxides {(graphene oxides C08K 3/042)} • • of metals • • {of lithium} • • {of calcium, strontium or barium} • • • {of rare earth metal} • • • {of cerium} • • • {of magnesium} • • • {Magnesia, i.e. magnesium oxide} • • • {Magnesium hydroxide} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2213 2003/2217 2003/222 2003/2224 2003/2224 2003/2231	 {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of magnesium} {of magnesium} {Magnesia, i.e. magnesium oxide} {of aluminium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/2213 2003/2217 2003/2217 2003/2224 2003/2224 2003/2231 2003/2234 2003/2237	 . {Zinc halides} . Oxygen-containing compounds, e.g. metal carbonyls . Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {Magnesia, i.e. magnesium oxide} {of aluminium} {of tin} {of lead} {of titanium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE
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2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/2224 2003/2224 2003/2231 2003/2234 2003/2237 2003/2241	 . {Zinc halides} . Oxygen-containing compounds, e.g. metal carbonyls . Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {Magnesia, i.e. magnesium oxide} {of aluminium} {of tin} {of lead} {of titanium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/2224 2003/2224 2003/2231 2003/2231 2003/2237 2003/2241 2003/2244	 {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {magnesium hydroxide} {of aluminium} {of tin} {of titanium} {of titanium dioxide} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions
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2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2213 2003/2217 2003/2224 2003/2224 2003/2224 2003/2231 2003/2231 2003/2234 2003/2244 2003/2244 2003/2248 2003/2251 2003/2255	 {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of ragnesium} {of magnesium} {of aluminium} {of aluminium} {of tin} {of tin} {of titanium} {of copper} {of chomium} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K.
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2213 2003/2217 2003/2224 2003/2224 2003/2227 2003/2231 2003/2234 2003/2237 2003/2244 2003/2244 2003/2248 2003/2251 2003/2255 2003/2258	 \ {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of magnesium} {of magnesium} {magnesiam hydroxide} {of aluminium} {of tin} {of tin} {of titanium} {of titanium} {of copper} {of molybdenum} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K. 5/0008 . {Organic ingredients according to more than one of
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/222 2003/2224 2003/2231 2003/2231 2003/2237 2003/2237 2003/2244 2003/2244 2003/2248 2003/2255 2003/2258 2003/2262	 {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of magnesium} {of magnesium} {of daluminium} {of aluminium} {of tin} {of tinaium dioxide} {of zirconium} {of copper} {of molybdenum} {of tungsten} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K. 5/0008 . {Organic ingredients according to more than one of the "one dot" groups of C08K 5/01 - C08K 5/59}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/2224 2003/2224 2003/2231 2003/2231 2003/2234 2003/2237 2003/2244 2003/2244 2003/2248 2003/2251 2003/2258 2003/2262 2003/2265	 \ {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {of dagnesium hydroxide} {of aluminium} {of tin} {of tinaium dioxide} {of copper} {of molybdenum} {of tungsten} {of manganese} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K. 5/0008 . {Organic ingredients according to more than one of the "one dot" groups of C08K 5/01 - C08K 5/59} 5/0016 . {Plasticisers}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/2211 2003/2217 2003/2217 2003/2224 2003/2224 2003/2231 2003/2231 2003/2234 2003/2237 2003/2244 2003/2244 2003/2255 2003/2255 2003/2262 2003/2265 2003/2268	 \ {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {of magnesium hydroxide} {of aluminium} {of tin} {of titanium} {of titanium} {of copper} {of molybdenum} {of manganese} {of iron} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 {Silicon-containing compounds} 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K. 5/0008 {Organic ingredients according to more than one of the "one dot" groups of C08K 5/01 - C08K 5/59} 5/0016 {Plasticisers} 5/0025 {Crosslinking or vulcanising agents; including accelerators} 5/0033 {Additives activating the degradation of the
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/222 2003/2224 2003/2231 2003/2231 2003/2234 2003/2244 2003/2244 2003/2248 2003/2255 2003/2255 2003/2258 2003/2265 2003/2268 2003/2272	 \ {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {of magnesium hydroxide} {magnesium hydroxide} {of aluminium} {of tin} {of lead} {of titanium} {of zirconium} {of copper} {of copper} {of tungsten} {of manganese} {of iron} {ferrous oxide (FeO)} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K. 5/0008 . {Organic ingredients according to more than one of the "one dot" groups of C08K 5/01 - C08K 5/59} 5/0016 . {Plasticisers} 5/0025 . {Crosslinking or vulcanising agents; including accelerators} 5/0033 . {Additives activating the degradation of the macromolecular compound}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2217 2003/2217 2003/222 2003/2224 2003/2231 2003/2231 2003/2234 2003/2244 2003/2244 2003/2248 2003/2255 2003/2255 2003/2258 2003/2265 2003/2268 2003/2272	 \ {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {of magnesium hydroxide} {of aluminium} {of tin} {of tinanium} {of titanium} {of copper} {of copper} {of tungsten} {of manganese} {of iron} {errous oxide (FeO)} 	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K. 5/0008 . {Organic ingredients according to more than one of the "one dot" groups of C08K 5/01 - C08K 5/59} 5/0016 . {Plasticisers} 5/0025 . {Crosslinking or vulcanising agents; including accelerators} 5/0033 . {Additives activating the degradation of the macromolecular compound} 5/0041 . {Optical brightening agents, organic pigments}
2003/168 3/18 3/20 3/22 2003/2203 2003/2206 2003/221 2003/2213 2003/2217 2003/2224 2003/2224 2003/2231 2003/2231 2003/2234 2003/2234 2003/2244 2003/2248 2003/2248 2003/2255 2003/2255 2003/2258 2003/2265 2003/2268 2003/2272 2003/2275 3/2279	 \ {Zinc halides} Oxygen-containing compounds, e.g. metal carbonyls Oxides; Hydroxides {(graphene oxides C08K 3/042)} of metals {of lithium} {of calcium, strontium or barium} {of rare earth metal} {of cerium} {of magnesium} {of magnesium} {of aluminium} {of aluminium} {of tin} {of tinanium} {of titanium} {of copper} {of copper} {of tungsten} {of manganese} {of manganese} {of tronium} {of troniu	2003/326 {Magnesium phosphate} 2003/327 {Aluminium phosphate} 2003/328 {Phosphates of heavy metals} 2003/329 {Phosphorus containing acids} 3/34 . Silicon-containing compounds 2003/343 {Peroxyhydrates, peroxyacids or salts thereof} 3/346 {Clay} 3/36 Silica 3/38 . Boron-containing compounds 2003/382 {and nitrogen} 2003/385 {Binary compounds of nitrogen with boron} 2003/387 {Borates} 3/40 . Glass 5/00 Use of organic ingredients NOTE In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K. 5/0008 . {Organic ingredients according to more than one of the "one dot" groups of C08K 5/01 - C08K 5/59} 5/0016 . {Plasticisers} 5/0025 . {Crosslinking or vulcanising agents; including accelerators} 5/0033 . {Additives activating the degradation of the macromolecular compound}

5/0058	• • {Biocides; (macromolecular substances as carriers for biocide material <u>A01N 25/10</u>)}	5/205 Compounds containing groups, e.g.
5/0066	• • {Flame-proofing or flame-retarding additives}	-0-Ë-N<
5/0075	• • {Antistatics}	carbamates
5/0083	• • {Nucleating agents promoting the crystallisation	5/21 Urea; Derivatives thereof, e.g. biuret
	of the polymer matrix }	5/22 Compounds containing nitrogen bound to another
5/0091	• {Complexes with metal-heteroatom-bonds}	nitrogen atom
5/01	• Hydrocarbons {(<u>C08K 5/0091</u> takes precedence)}	5/23 Azo-compounds
5/02	• Halogenated hydrocarbons {(C08K 5/0091 takes	5/235 {Diazo and polyazo compounds}
	precedence)}	5/24 Derivatives of hydrazine
5/03	• aromatic $\{$, e.g. C_6H_5 - CH_2 - $Cl\}$	5/25 Carboxylic acid hydrazides
5/04	• Oxygen-containing compounds {(C08K 5/0091	5/26 Semicarbazides
	takes precedence)}	5/27 Compounds containing a nitrogen atom bound
5/05	Alcohols; Metal alcoholates	to two other nitrogen atoms, e.g. diazoamino-
5/053	Polyhydroxylic alcohols	compounds
5/057	• • • Metal alcoholates {(metal enolates	5/28 Azides
	<u>C08K 5/0091</u>)}	5/29 Compounds containing {one or more} carbon-to-
5/06	• Ethers; Acetals; Ketals; Ortho-esters	nitrogen double bonds
5/07	Aldehydes; Ketones	5/30 Hydrazones; Semicarbazones
5/08	Quinones	5/31 Guanidine; Derivatives thereof
5/09	 Carboxylic acids; Metal salts thereof; Anhydrides thereof 	5/315 . Compounds containing carbon-to-nitrogen triple bonds
5/092	Polycarboxylic acids	5/3155 {Dicyandiamide}
5/095	Carboxylic acids containing halogens	5/32 Compounds containing nitrogen bound to oxygen
5/098	Metal salts of carboxylic acids	5/33 Oximes
5/10	. Esters; Ether-esters	5/34 . Heterocyclic compounds having nitrogen in the
5/101	of monocarboxylic acids	ring
5/103	• • • with polyalcohols	5/3412 having one nitrogen atom in the ring
5/105	with phenols	5/3415 Five-membered rings
5/107	with polyphenols	5/3417 condensed with carbocyclic rings
5/109	• • • of carbonic acid {, e.g. R-O-C(=O)-O-R}	5/3432 Six-membered rings
5/11	of acyclic polycarboxylic acids	5/3435 Piperidines
5/12	of cyclic polycarboxylic acids	5/3437 condensed with carbocyclic rings
5/13	. Phenols; Phenolates	5/3442 having two nitrogen atoms in the ring
5/132	• • • Phenols containing keto groups {, e.g.	5/3445 Five-membered rings
	benzophenones}	5/3447 condensed with carbocyclic rings
5/134	Phenols containing ester groups	5/3462 Six-membered rings
5/1345	{Carboxylic esters of phenolcarboxylic	5/3465 condensed with carbocyclic rings
	acids}	5/3467 having more than two nitrogen atoms in the
5/136	Phenols containing halogens	ring
5/138	Phenolates	5/3472 Five-membered rings
5/14	Peroxides	5/3475 condensed with carbocyclic rings
5/15	Heterocyclic compounds having oxygen in the	5/3477 Six-membered rings
	ring	5/3492 Triazines
5/151	• • • having one oxygen atom in the ring	5/34922 {Melamine; Derivatives thereof}
5/1515	Three-membered rings	5/34924 {containing cyanurate groups;
5/1525	• • • Four-membered rings	Tautomers thereof}
5/1535	• • • Five-membered rings	5/34926 {also containing heterocyclic groups
5/1539	Cyclic anhydrides	other than triazine groups}
5/1545	Six-membered rings	5/34928 {Salts}
5/156	• • • having two oxygen atoms in the ring	5/3495 condensed with carbocyclic rings
5/1565	• • • Five-membered rings	5/35 having also oxygen in the ring
5/1575	Six-membered rings	5/353 Five-membered rings
5/159	• • • having more than two oxygen atoms in the ring	5/357 Six-membered rings
5/16	 Nitrogen-containing compounds {(<u>C08K 5/0091</u> takes precedence)} 	5/36 • Sulfur-, selenium-, or tellurium-containing compounds {(C08K 5/0091 takes precedence)}
5/17	Amines; Quaternary ammonium compounds	5/37 Thiols
5/175	{containing COOH-groups; Esters or salts	$5/372$ Sulfides {, e.g. R-(S)x-R'}
5/1/5	thereof}	5/3725 {containing nitrogen}
5/18	• • • with aromatically bound amino groups	5/375 containing six-membered aromatic rings
5/19	Quaternary ammonium compounds	$\{(\underline{\text{C08K 5/3725}} \text{ takes precedence})\}$
5/20	Carboxylic acid amides	5/378 containing heterocyclic rings
	•	

5/38	Thiocarbonic acids; Derivatives thereof, e.g.	5/5455	containing at least one group
	xanthates {; i.e. compounds containing -X-		>N−C−
	C(=X)- groups, X being oxygen or sulfur, at least	5/5465	containing at least one C=N bond
	one X being sulfur}	5/5475	containing at least one C≡N bond
5/39	Thiocarbamic acids; Derivatives thereof, e.g.	5/5477	• • • Containing at reast one of the solution
	dithiocarbamates	5/548	• containing sulfur {(C08K 5/5477 takes
5/40	Thiurams, {i.e. compounds	3/340	precedence)}
	containing groups}	5/549	• containing silicon in a ring
	>N-C-(s),-C-N(groups)		
	Ŝ Ŝ	5/55	• Boron-containing compounds {(C08K 5/0091 takes
5/405	Thioureas; Derivatives thereof	5.15.6	precedence)}
5/41	Compounds containing sulfur bound to oxygen	5/56	Organo-metallic compounds, i.e. organic
5/42	Sulfonic acids; Derivatives thereof		compounds containing a metal-to-carbon bond
5/43	Compounds containing sulfur bound to nitrogen	5/57	Organo-tin compounds
5/435	Sulfonamides	5/58	containing sulfur
5/44	Sulfenamides	5/59	 Arsenic- or antimony-containing compounds
		7/00	Use of inquedients shows storied by shows
5/45	Heterocyclic compounds having sulfur in the ring	7/00	Use of ingredients characterised by shape
5/46	• • • with oxygen or nitrogen in the ring		<u>NOTE</u>
5/47	Thiazoles		In this group, C-Sets are used. The detailed
5/48	Selenium- or tellurium-containing compounds		information about the C-Sets construction and the
5/49	• Phosphorus-containing compounds {(<u>C08K 5/0091</u>		associated syntax rules is present in the Definitions
	takes precedence)}		of COSK.
5/50	 Phosphorus bound to carbon only 		or <u>cook</u> .
5/51	Phosphorus bound to oxygen	7/02	Fibres or whiskers
5/52	Phosphorus bound to oxygen only	7/02	. inorganic
5/5205	{Salts of P-acids with N-bases}		_
5/521	• • • Esters of phosphoric acids, e.g. of H ₃ PO ₄	7/06	Elements
5/523	with hydroxyaryl compounds	7/08	Oxygen-containing compounds
5/524	• • • Esters of phosphorous acids, e.g. of H ₃ PO ₃	7/10	Silicon-containing compounds
		7/12	Asbestos
5/526	• • • • with hydroxyaryl compounds	7/14	Glass
5/527	Cyclic esters	7/16	Solid spheres
5/529	Esters containing heterocyclic rings not	7/18	inorganic
	representing cyclic esters of phosphoric or	7/20	Glass
	phosphorous acids	7/22	Expanded, porous or hollow particles
5/53	bound to oxygen and to carbon only	7/24	inorganic
5/5313	• • • Phosphinic compounds, e.g. R ₂ =P(:O)OR'	7/26	Silicon- containing compounds
5/5317	• • • Phosphonic compounds, e.g. R—P(:O)(OR') ₂	7/28	Glass
5/5333	Esters of phosphonic acids	7720	• • • • • • • • • • • • • • • • • • • •
5/5337	containing also halogens	9/00	Use of pretreated ingredients
5/5353	containing also nitrogen		NOTE
5/5357	cyclic		
5/5373	containing heterocyclic rings not		In this group, C-Sets are used. The detailed
	representing cyclic esters of phosphonic		information about the C-Sets construction and the
	acids		associated syntax rules is present in the Definitions
5/5377	• • • Phosphinous compounds, e.g. R ₂ =P—OR'		of <u>C08K</u> .
5/5393	Phosphonous compounds, e.g. R—P(OR') ₂		
5/5397	• • • • • • • • • • • • • • • • • • •	9/02	 Ingredients treated with inorganic substances
	*	9/04	• Ingredients treated with organic substances {(treated
5/5398	Phosphorus bound to sulfur		with macromolecular compounds <u>C08K 9/08</u>)}
5/5399	. Phosphorus bound to nitrogen	9/06	 with silicon-containing compounds
5/54	• Silicon-containing compounds {(<u>C08K 5/0091</u> takes	9/08	. Ingredients agglomerated by treatment with a
	precedence)}		binding agent
5/5403	• • {containing no other elements than carbon or	9/10	Encapsulated ingredients
	hydrogen}	9/12	• Adsorbed ingredients {, e.g. ingredients on carriers}
5/5406	• • {containing elements other than oxygen or		
	nitrogen}	11/00	Use of ingredients of unknown constitution, e.g.
5/541	containing oxygen		undefined reaction products
5/5415	containing at least one Si—O bond		NOTE
5/5419	containing at least one Si—C bond		
5/5425	containing at least one C=C bond		In this group, C-Sets are used. The detailed
5/5435	containing oxygen in a ring		information about the C-Sets construction and the
5/544	containing oxygen in a ring		associated syntax rules is present in the Definitions
5/5445	containing at least one Si-N bond		of <u>C08K</u> .
J/ J+4J	• • • containing at least one si-iv bollu		

11/005

• {Waste materials, e.g. treated or untreated sewage sludge}

13/00

Use of mixtures of ingredients not covered by one single of the preceding main groups, each of these compounds being essential

NOTE

In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of $\underline{\text{C08K}}$.

13/02

. Organic and inorganic ingredients

13/04

Ingredients characterised by their shape and organic or inorganic ingredients

13/06

 Pretreated ingredients and ingredients covered by the main groups <u>C08K 3/00</u> - <u>C08K 7/00</u>

13/08

 Ingredients of unknown constitution and ingredients covered by the main groups <u>C08K 3/00</u> - <u>C08K 9/00</u>

	covered by the main groups <u>Cosk 5/00</u> - <u>Cosk 9/00</u>
2201/00	Specific properties of additives
2201/001	Conductive additives
2201/002	Physical properties
2201/003	Additives being defined by their diameter
2201/004	Additives being defined by their length
2201/005	Additives being defined by their particle size in
	2
2201/006	Additives being defined by their surface area
2201/007	Fragrance additive
2201/008	Additives improving gas barrier properties
2201/009	Additives being defined by their hardness
2201/01	Magnetic additives
2201/011	Nanostructured additives
2201/012	Additives improving oxygen scavenging properties
2201/013	Additives applied to the surface of polymers or
	polymer particles
2201/014	Additives containing two or more different additives
	of the same subgroup in <u>C08K</u>
2201/015	Additives for heat shrinkable compositions
2201/016	Additives defined by their aspect ratio
2201/017	Additives being an antistatic agent
2201/018	Additives for biodegradable polymeric composition
2201/005 2201/006 2201/007 2201/008 2201/009 2201/011 2201/011 2201/013 2201/014 2201/015 2201/016 2201/017	Additives being defined by their particle size in general Additives being defined by their surface area Fragrance additive Additives improving gas barrier properties Additives being defined by their hardness Magnetic additives Nanostructured additives Additives improving oxygen scavenging properties Additives applied to the surface of polymers or polymer particles Additives containing two or more different additive of the same subgroup in C08K Additives for heat shrinkable compositions Additives defined by their aspect ratio Additives being an antistatic agent

2201/019 . the composition being defined by the absence of a

certain additive