UC code (#)	Use Category (UC)	SUC	Sub Use Category (SUC)			n Factors rvice life	Service life (Year)
		COGO		Ш	Air	Water	
	Intermediates						
01	Intermediates	a	Synthetic raw materials, polymerization raw materials, prepolymers	Π-			
		b z	Polymerization initiators Others	Ш			
	Solvents						
02	Solvents for paints, varnishes, coatings, printing inks and biocidal products	a	Solvents for paints	Π-			
	iriks and biocidal products	b c	Solvents for paint removers Solvents for varnishes	lŀ			
		d	Solvents for coatings, solvents for resist inks	II			
		e f	Solvents for printing inks, solvents for devices Solvents for biocidal products	lŀ			-
		Z	Others	IĽ			
03	Solvents for adhesives, pressure sensitive	a b	Solvents for diluent of adhesives, solvents for pressure sensitive Solvents for adhesive removers	H			
		C	Solvents for binding plastic resins, solvents for rubber resins	It.			
		d	Solvents for sealants	Æ			
04	Solvents for cleaning and degreasing metals	z a	Others Solvents for cleaning, solvents for degreasing metals	ı۲			
		Z	Others	IĽ			
05	Solevents for cleaning fablics 《laundry, dry cleaning industry》	<u>a</u> b	Solvents for dry cleaning Solvents for stain removals, solvents for extracting of dry cleaning	H			
	wadnary, ary creaming madady/	z	Others	lt			
06	Solvents for cleaning others	а	Photoresist developing solvents, resist removing solvents	ΙF			
07	[excl. #04,05] Solvents for chemical manufacture and	z a	Others Solvents for synthesis	۱ŀ			
	processing	b	Solvents for spinning, solvents for membranes	ΙĽ			
		c d	Solvents for extraction, purification and refinings Solvents for diluents	H		 	
	[excl. #02-06]	z	Others	H			
08	Solvents for aerosol	а	Solvents for aerosol, aerosol propellants	ıĘ			
09	Other solvents	Z 7	Others Other solvents	۱ŀ			
	Not solvents		Other servents	_		ı.	
10	Chemical process regulators	а	Catalysts, catalyst supports	Π.			
		b	Ion exchange resins, ion exchange membranes, separation membranes,				
		С	diaphragms, dewaxing agents Emulsifiers, dispersing agents	Ħ			
		d	Polymerization regulators, polymerization inhibitors, stabilizers	H			
		e z	Optical resolution agents Others	H			
11	Colorants	a	Coloring agents (e.g. dyes, pigments)	I	0	0.0001	
		b	Fluorescent brightening agents	H	*	*	
	[excl. #12,13,15,16,25,26,29]	c z	Color formers, color developers Others	lŀ	§	§	§
12	Washing and cleaning products (I)	а	Surface active agents Inorganic alkalis, organic alkalis, inorganic acids, organic acids, bleaching	ıĘ			
	《Industrial use》	b	Inorganic alkalis, organic alkalis, inorganic acids, organic acids, bleaching agents				
		С	Builders and additives (e.g. chelating agents, anti-redeposition agents,	Ħ			†
			anti-foaming agents)	H			
	[excl. #25.26]	d z	Corrosion inhibitors Others	۱Ŀ			
13	Washing and cleaning products (II)	a	Surface active agents	ıĘ			
	《Household use, Institutional use》		Softening agents Inorganic alkalis, organic alkalis, inorganic acids, organic acids, bleaching	Ħ			+
		С	agents	11.			
		d	Builders and additives (e.g. chelating agents, anti-redeposition agents, enzymes, fluorescent brighteners, UV absorbers)	П			
		z	Others	۱Ŀ		İ	†
14	Polishes and wax blends (e.g. for floors, cars, leathers)	a	Waxes Emulcifiers dispersing agents	Į F		ļ	
	(e.g. for floors, cars, leathers)	b z	Emulsifiers, dispersing agents Others	H		<u> </u>	<u> </u>
15	Paints and coatings	а	Resins for paints, resins for coatings	Į [ļ
	[incl. primers]	b c	Colorants (e.g. dyes, pigments, bright agents) Monomers/oligomers for curing coating materials, binder components	H	*	*	
		d	Crosslinking agents, curing agents, thickeners, polymerization initiators,	۱ŀ	*	·	†
			photoacid generators, photobase generators	╟	ψ		4
		e f	Plasticizers, fillers Stabilizers	H	*	*	t
		g	Anti-skinning agents, thickeners, anti-foaming agents, anti-blocking	ľ	*	*	
			agents, levelling agents, conductive agents Emulsifiers, dispersing agents, wetting agents, penetrants, surface	╟		-	
		h	conditioners, film-forming agents	I L	*	*	
		i	Corrosion inhibitors, anti-corrosive agents, preservatives, antimicrobial agents (antifungal agents, antibacterial agents)	11	*	*	
		i	Siccatives, wetting agents, flame retardants, water repellent agents	iŀ	*	*	1
, _	Die in in	Z	Others	ĮĒ	§	§	§
16	Printing ink and toners [incl. ink for stationaries and resist inks]	<u>а</u>	Resins for printing inks, resins for toners Colorants (e.g. dyes, pigments), thermosensitive dyes, pressure-	H			
	Enter the stationaries and resist lines	b	sensitive dyes, fluorescent brighteners, developers	I L			_
		C	Monomers/oligomers for radiation curable inks, sensitizers, photo	ĮĒ			4
		d e	Plasticizers, fillers Stabilizers	H		 	
		f	Anti-skinning agents, thickeners, anti-foaming agents, anti-blocking	ΙĖ			‡
		g	Emulsifiers, dispersing agents, wetting agents, penetrants, film-forming				
		h	agents Charge control agents, flow agents , rub resistant agents, slipping	H		-	
		i	Siccatives, pre-wetting agents	ľ			
		z	Others	Щ			<u> </u>

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UC code (#)	Use Category (UC)	SUC code	Sub Use Category (SUC)			n Factors rvice life	Service life (Year)
					Air	Water	(Toal)
17	Antifoulants for ship bottom paints, antifoulants for fish nets	a b	Resins for antifoulants [incl. additives] Antifoulants for ship bottom paints	ļ	0 0	0.9 0.9	3
	Tor Hotel	С	Antifoulants for fish nets		0	0.9	1
- 10	Biocidal products (I)	Z	Others Antimicrobial agents (antifungal agents, antibacterial agents),		0	0.9	1
18	[On to/in to articles]	a	insecticides, presevatives, anti-ant agents		0	0.0014	15
		b z	Spreading agents, emulsifiers Others		§	§	§
19	Biocidal products (II) [Not onto/in to articles]	а	Biocides for nuisance (insect control agents, insect attractants, insecticide synergists)				
	《Industrial use》	b	Gas sterilants, fumigants				
		С	Antimicrobial agents (antifungal agents, antibacterial agents), disinfectants, preservatives				
		d	Spreading agents, emulsifiers Others				
20	Biocidal products (III)	z a	Biocides for nuisance	<u> </u>			
	《Household use, Institutional use》	b c	Biocides for fabric insect pest, moth repellent Anti-ant agents				
		d	Antimicrobial agents (antifungal agents, antibacterial agents),				
		e	disinfectants, preservatives Non-crop land herbicides				
		f	Spreading agents, emulsifiers				
21	Explosive products	z a	Others Low explosives, high exposives, explosive devices[excl. #21-b],	Н			
	[incl. fireworks]	b	Gas generants for automotive safety devices	ļ			
22	Air fresheners, deodorizers	z a	Others Fragrances (for washing and cleaning products) [excl. #22-b,c]	L			
	·	b	Air fresheners				
		d d	Deodorizers Emulsifiers, dispersing agents				
22	Adhesives and sealants	z	Others Resins for adhesives, resins for sealants				
20	Auriesives and sealants	a b	Binder components (e.g. monomers, prepolymers, curing agents, curing				
		c	accelerators, initiators, coupling agents) Plasticizers, fillers		*	*	2
			Stabilizers		*	*	2
		е	Anti-skinning agents, thickening agents, anti-foaming agents, anti- blocking agents, leveling agents				
		f	Surface control agents, dispersing agents				
		g h	Preservatives, antimicrobial agents (antifungal agents, antibacterial Flame retardants, electroconductive agents		*	*	2
	Dhatanaist and aide about making a dariel	Z	Others		§	§	§
24	Photoresist materials, photographic materials and printing plate materials	а	Photo-, electron sensitive resins (e.g. photoresists, presensitized plates)				
		b	Monomer/oligomers of photo-, electron sensitive resins Photoresists, photoreceptors for electrography, photopolymerization				
		С	initiators, photoacid generators, photobase generators				
		d e	Dye-forming couplers Emulsifiers, dispersing agents				
			Fixing agents, stabilizers				
		g	Hardening agents, sensitizers, desensitizers, crosslinking density enhancers, polymerization initiators, resist additives				
		h	Developers, water-soluble processing agents, resist removers				
25	Textile products	Z	Others Base materials for articles (synthetic fibers, nonwovens)	Н			
25	[incl. nonwoven fabric processing]	a				0.6	1.
		b c	Coloring agents (e.g. dyes, pigments), fluorescent brightening agents Sizing agents	<u> </u>	<u> </u>	0.6	
		d e	Anti-flaming agents, flame retardants Impregnated reinforcing agents, dye fixing agents		0	0.6	1
		f	Anti-static agents, hydrophilic agents	ļ	0	0.6	11
		g h	Softening agents Form stabilizing agents				
		i	Water repellent agents, oil repellent agents, water proofing agents, soil	I	0	0.6	1
		j	resistant finishing agents Antimicrobial agents (antifungal agents, antibacterial agents), anti-			0.3	
		J k	discoloration agents, UV absorbers Spinning, knitting and weaving oils, spinning, knitting and weaving oil	 	0	0.3	
			Washing agents, scouring and washing agents, lubricants	ļ			
		m n	Chleting agents Bleaching agents, discharging agents	 			
		0	Bleaching agents, discharging agents Levelling agents, penetrants, dyeing accelerators, mordanting				
		р	assistants, printing pastes Emulsifiers, dispersing agents, anti-forming agents				
		q	Mercerizing assistants				
		r z	Desizing agents Others		§	§	§
26	Paper and boad products	a b	Colorants (e.g. dyes, pigments), fluorescent brightening agents Sizing agents, fixing agents, fillers	ļ			
		С	Coating agents	<u> </u>			
		d e	Anti-flaming agents, flame retardants, anti-static agents Paper strength additives, retention aids, fixing agents, corrosion	 			
		f	Water repellent agents, oil repellent agents, water proofing agents	ļ			
			Bulking promoters, softening agents Cooking liquors, pH regulators	 			
			Slimicides, pitch control agents	ļ			
		i	Bleaching agents, stabilizers for bleaching bath Emulsifiers, dispersing agents, anti-forming agents, de-inking agents,	 -			
		k	detergents	 			
			Others stage), emission factors could not be specified at this point. Additional res				

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UC code	Use Category (UC)	SUC	Sub Use Category (SUC)	Emission over sei	Service life (Year)	
(#)		COGO	, , , , , , , , , , , , , , , , , , ,	Air	Water	(Tear)
27	Plastic products	a	Base materials for molded products(e.g. plastics, artificial leathers,			
		b c	Super water-absorbing materials Plasticizers, dispersing agents	0.0005	0.016	1
		d	Stabilizers	0.0005	0.016	
		e f	Fillers, diluents, polymer decomposition accelerators Nucleating agents	0	0.0001	
		g	Internal lubricants, internal mold release agents	0	0.0001	
		n i	Anti-clouding agents, anti-fogging agents Flame retardants, anti-static agents, wavelength conversion agents	* 0.0005	* 0.016	
		نِ	External lubricants, external mold release agents			
		k I	Foaming agents, radical generators Casting, foam casting materials (e.g. monomers, prepolymers)	0	0	
		m	Curing agents, closslinking agents, closslinking aids, sensitizers,			
		n	polymerization initiators Curing accelerators			
	[excl. #15,16,23,25,28]	У	Other additives (e.g. reforming agents)	*	*	
28	[Colorants : #11] Rubber products	z a	Others Base materials for molded products (e.g. elastomers, synthetic rubbers)		8	9
	·	b	Vulcanization accelerators, vulcanization accelerator activators	0.01	0.11	
		d d	Vulcanizing agents, crosslinking agents, crosslinking coagents Plasticizers, reinforcing materials, fillers	0.01	0.11	
		е	Stabilizers (e.g. anti-degradants, anti-oxidants)	0.01	0.11	
		f	Anti-scorch agents, masticating accelerators (peptizering agents), internal lubricants, internal release agents	0.01	0.11	
		g	Latex coagulants, emulsifyings, dispersing agents, anti-settling agents	0.01	0.11	
		h i	Flame retardants, anti-static agents External lubricants, external mold release agents	0.01	0.11	
		<u>-</u>	Blowing agents	0.01	0.11	
		k y	Rubber reclaiming agents Other additives	0.01	0.11	
	[Colorants : #11]	z	Others	§	§	§
29	Leather products	а	Tanning agents Tanning finishing agents (e.g. bleaching agents, colorants and auxiliaries,	*	*	
		b	water repellent agents, leather oils, defatting agents, fatliquoring	*	*	
		c z	Pretanning agents (e.g. defatting agents, deliming agents) Others	ξ	ş	e
30	Glass, enamel and cement products	a	Glass raw materials	*	*	9
		b	Glass additives (e.g. tenpering agents, sizing agents, anti-clouding	*	*	
		С	agents, UV cutting agents) Glass processing aids (e.g. mold release agents, pH regulators)			
		d	Enamel raw materials	*	*	
		e f	Enamel additives (e.g. transfer printing agents, materials for frit Enamel processing aids (e.g. neutralizing agents. nickel-treatment	*	*	
		g	Cement raw materials	*	*	,
		h	Cement additives (e.g. additives for blended cements, expansive agents, hardening agents)	*	*	;
	[Colorants:#11]	z	Others	§	§	§
31	Ceramics and porcelain, refractory and fine ceramics products	а	Raw materials of ceramics, raw materials of porcelain, refractory raw materials, fine ceramics raw materials	*	*	;
		b	Ceramics additives, porcelain additives, refractories additives, fine	*	*	
			ceramics additives (e.g. sintering aids) Molding aids (e.g. binders, thickeners, plasticizers, lubricants, dispersing			
	_	С	agents)			
	[Colorants : #11, fine ceramics for electron : #38]	d z	Lubricants, mold release agents Others	§.	6	ξ
32	Grinding wheel, abrasive compound, friction	a	Raw materials of grinding wheel , raw materials of abrasive compound,	*	*	
02	material and solid lubricant products	a	raw materials of friction material, raw materials of solid lubricant Grinding wheel additives, abrasive compound additives, friction material			
		b	additives, solid lubricant additives	*	*	
	[Colorants : #11]	C -	Lubricants, mold release agents Others	ξ	§.	c
33	[Colorants : #11] Metal products	z a	Metal additives (e.g. inoculation agents)	9	3	9
	[Raw materials of metal and alloy: #1, colorants: #11, surface treatment products: #34, welding	b	Metalworking aids (e.g. fluxes)			
	#11, surface treatment products : #34, welding and soldering products : #35, metal working	d d	Molding sand binders, curing agents for binders, molding sand additives Release agents			
	fluids:#37]	Z	Others			
34	Surface treatment chemicals	a b	Plating agents Plating bath additives			
		c	Chemical conversion coating agents			
	[Defatting and/or cleaning agents used for	d	Vacuum plating agents (for e.g. chemical vapor deposition), thermal spraying agents			
	pre- or post-treatment of plating: #04(non-	е	Surface-hardening treatment agents (for e.g. carburizing, nitriding)			
	aqueous, semi-aqueous) or #12(aqueous)]	f g	Fluorinating agents, silvlating agents Etching agents, sputter etching agents, abrasive blasting materials			
	[excl. #4-6,12-15,17,25-27,30-32,38,44]	Z	Others			
35	Welding and soldering products	a b	Welding fluxes Brazing and soldering fluxes (e.g. anti-oxidant materials for solder			
		C	Welding gas, gas for fusion cutting			
26	Hydraulic fluids, insulation oils, process oils	Z	Others Base oils for hydraulic fluids, lubricating oils			
30	Hydraulic fluids, insulating oils, process oils, lubricating oils (e.g. engine oils, bearing oils,	a b	Base oils for hydraulic fluids, lubricating oils Base oils for insulating oils			
	compressor oils, greases)	С	Base oils for process oils	0.01	0.11	
		d e	Thickeners Additives for hydraulic fluids, lubricating oils	I		L
		f	Additives for insulating oils			
	[excl. #37]	g z	Additives for process oils Others	0.01 8	0.11 8	8
37	Metalworking fluids (e.g. cutting oils, rolling oils,	a	Base oils for water-soluble metalworking fluids	3	3	3
	press oils, quenching oils), rust preventive oils	b	Base oils for water-insoluble metalworking fluids, rust preventive oils			
		d d	Additives for water-soluble metalworking fluids Additives for water-insoluble metalworking fluids, rust preventive oils			
		7	Others	I		l

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UC code (#)	Use Category (UC)	SUC			Emission over se	Service life (Year)	
		5508		l	Air	Water	(I dai)
38	Electrical and electronic products	а	Magnetic materials[excl. #38-f], electrical conductive materials,		*	*	20
"	[incl. chemicals used for production of subject materials]		superconductive materials, fluorescent materials Semiconductor materials, organic semiconductor materials, liquid	l I			
		b	crystal materials		*	*	10
		С	Dielectric materials, electrical resistance materials, solid electrolyte	Г	*	*	20
			materials, electrolytic solution materials, separator materials for fuel				
		d	Optical waveguide materials[incl. optical fibers], optical film materials, optical materials for electronic devices				
		е	Encapsulation materials, insulating materials, shielding materials	l I	*	*	20
		f	Electronic storage media materials	1	*	*	10
	[Insulating oils: #36]	Z	Others	ll-	§	§	§
39	Electrical batteries	а	Solid electrolytes, electrolytic solution materials, electrical insulators, battery separators				
		b	Electrode materials (e.g. cathode and anode active materials, current	H			-
		b	collectors, current collectors, binders), depolarizers	II			
		z	Others	L			
40	Water treatment chemicals	a b	Corrosion and rust preventive agents, scale inhibitors, algicides Metal ion scavengers, sequestering agents, water softeners	H			
		C	Ion exchangers, separation membranes	H			
		d	Oxidants, reductants, pH regulators	I Ľ.			
		е	Anti-foaming agents, floculants, filter aids , dewatering aids, ion				
			exchange resin regeneration agents Others	ļ			
41	Desiccants and absorbents	z a	Desiccants Desiccants	lŀ			
	Desiceants and absorbents	b	Adsorbents (e.g. deodorizers, denitration agents, gas absorbents)	l I			-
		С	Absorbents (e.g. oxygen scavengers)	Ш.			
40		Z	Others	IL			
42	Heat transfer fluids	a b	Refrigerants, coolants Heating mediums	╟			
		z	Others	l I			
43	Anti-freeze and de-icing products	а	Anti-freezing agents	II.			
		b	Anti-corrosive agents, corrosive inhibitors	<u> </u>			
44	Additives for building materials and	Z	Others	lŀ	Ψ.	4	20
**	Additives for building materials and constructional articles	a b	Surface hardening agents Concrete admixtures(e.g. air entraining agents, water-reducing agents)	H	*	*	30
	(e.g. concrete admixtures, Wood impregnating	С	Release agents, anti-foaming agents		*	*	30
		d	Wood impregnating agents, additives to wooden plates	II.	*	*	30
		е	Antifoulants[excl. #17-b, c], water proofing agents, water repellent	I I	* §	* §	<u>s</u> 30
45	Additives for building materials and	z a	Others Anti-freezing agents (e.g. snow melting agents)	lŀ	9	9	9
-10	constructional articles	b	Soil conditioners (for e.g. soil improvements, soil stabilizations)	l I			
	(e.g. snow melting agents, soil conditioners, fire	С	Fire extinguisher agents	Ш.			
		d	Nucleating agents	l I			
		e f	Dispersants for oil spill Dust binding agents	╟			
		z	Others	l I			
46	Flotation reagents, collectors	а	Flotation reagents(collectors, frothers, conditioning agents), metal	П			
40		а	leaching agents	l I			
	《Mining industry, manufacture of fabricated metal products 》	b	Flocculants, dispersing agents, metal-caputuring agents				
	[Solvents for extraction, purification and			l I			
	refining: #07]	z	Others				
47	Fuels and fuel additives	а	Fuels	I 🏻			
		b	Fuel additives (e.g. detergents, anti-oxidants, viscosity index improvers,				
		ŀ	friction modifiers, corrosion inhibitors) Combustion improvers (e.g. combustion accelerators, cetane improvers,	╟			
		С	antiknock agents)				
		d	Anti-freezing agents, odorants	IŒ.			
		Z	Others	Ш			
	excl. #01-#47						
	Others	z	Other raw materials, other additives	IL			
99	For export	а	For export	ш			

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