

Table(7) Industrial Use, Household/Institutional Use

UC code (#)	Use Category (UC)	SUC code	Sub Use Category (SUC)	[Industrial Use]					[Household/Institutional use]						
				Emission Factors to Surface water					Emission Factors to STP, etc.						
				Water Solubility (mg/L)					Water Solubility (mg/L)						
<10	10-100	100-1,000	1,000-10,000	≥ 10,000	<10	10-100	100-1,000	1,000-10,000	≥ 10,000						
Intermediates															
01	Intermediates	a	Synthetic raw materials, polymerization raw materials, prepolymers	0.00005	0.00005	0.00005	0.0005	0.001							
		b	Polymerization initiators	0.000005	0.000005	0.000005	0.00005	0.00025							
		z	Others	0.00005	0.00005	0.00005	0.0005	0.001							
Solvents															
02	Solvents for paints, varnishes, coatings printing inks and biocidal products	a	Solvents for paints	0.00001	0.00001	0.00002	0.0001	0.0001							
		b	Solvents for paint removers	0.00001	0.00001	0.00002	0.0001	0.0001							
		c	Solvents for varnishes	0.00001	0.00001	0.00002	0.0001	0.0001							
		d	Solvents for coatings, solvents for resist inks	0.00001	0.00001	0.00002	0.0001	0.0001							
		e	Solvents for printing inks, solvents for devices	0.00001	0.00001	0.00002	0.0001	0.0001							
		f	Solvents for biocidal products	0	0	0	0	0							
		z	Others	0.00001	0.00001	0.00002	0.0001	0.0001							
03	Solvents for adhesives, pressure	a	Solvents for diluent of adhesives, solvents for pressure	0.00005	0.00005	0.00005	0.00025	0.0005							
		b	Solvents for adhesive removers	0.00005	0.00005	0.00005	0.00025	0.0005							
		c	Solvents for binding plastic resins, solvents for rubber	0.00005	0.00005	0.00005	0.00025	0.0005							
		d	Solvents for sealants	0.00005	0.00005	0.00005	0.00025	0.0005							
		z	Others	0.00005	0.00005	0.00005	0.00025	0.0005							
04	Solvents for cleaning and degreasing metals	a	Solvents for cleaning, solvents for degreasing metals	0.00001	0.00001	0.00005	0.00007	0.0001							
		z	Others	0.00001	0.00001	0.00005	0.00007	0.0001							
05	Solvents for cleaning fabrics (laundry, dry cleaning industry)	a	Solvents for dry cleaning	0.00001	0.00001	0.00001	0.0001	0.001							
		b	Solvents for stain removals, solvents for extracting of dry cleaning agents	0.00001	0.00001	0.0001	0.001	0.001							
		z	Others	0.00001	0.00001	0.0001	0.001	0.001							
06	Solvents for cleaning others [excl. #04.05]	a	Photosensitive developing solvents, resist removing solvents	0.00001	0.00005	0.00005	0.00025	0.0005							
		z	Others	0.00001	0.00005	0.00005	0.00025	0.0005							
07	Solvents for chemical manufacture and processing [excl. #02-06]	a	Solvents for synthesis	0.0001	0.0001	0.0001	0.0005	0.005							
		b	Solvents for spinning, solvents for membranes	0.002	0.002	0.002	0.01	0.01							
		c	Solvents for extraction, purification and refinings	0.0001	0.0001	0.0001	0.0005	0.001							
		d	Solvents for diluents	0.002	0.002	0.002	0.01	0.01							
		z	Others	0.002	0.002	0.002	0.01	0.01							
08	Solvents for aerosol	a	Solvents for aerosol, aerosol propellants	0	0	0	0	0							
		z	Others	0	0	0	0	0							
09	Other solvents	z	Other solvents	0.002	0.002	0.002	0.01	0.01							
Not solvents															
10	Chemical process regulators	a	Catalysts, catalyst supports	0.000005	0.00005	0.0001	0.0005	0.001							
		b	Ion exchange resins, ion exchange membranes, separation membranes, diaphragms, dewaxing agents	0.000005	0.00005										
		c	Emulsifiers, dispersing agents	0.00005	0.0001	0.00025	0.0005	0.001							
		d	Polymerization regulators, polymerization inhibitors, stabilizers	0.00005	0.0001	0.00025	0.0005	0.001							
		e	Optical resolution agents	0.00001	0.00005	0.0001	0.0005	0.001							
		z	Others	0.00005	0.0001	0.00025	0.0005	0.001							
11	Colorants [excl. #12.13.15.16.25.26.29]	a	Coloring agents (e.g. dyes, pigments)	0.00001	0.00001	0.00001	0.00002	0.00002							
		b	Fluorescent brightening agents	0.00001	0.00001	0.00001	0.00002	0.00002							
		c	Color formers, color developers	0.00001	0.00001	0.00001	0.00002	0.00002							
		z	Others	0.00001	0.00001	0.00001	0.00002	0.00002							
12	Washing and cleaning products (I) (Industrial use) [excl. #25.26]	a	Surface active agents	0.002	0.005	0.025	0.04	0.05							
		b	Inorganic alkalis, organic alkalis, inorganic acids, organic acids, bleaching agents	0.002	0.005	0.025	0.04	0.05							
		c	Builders and additives (e.g. chelating agents, anti-redposition agents, anti-foaming agents)	0.002	0.005	0.025	0.04	0.05							
		d	Corrosion inhibitors	0.002	0.005	0.025	0.04	0.05							
		z	Others	0.002	0.005	0.025	0.04	0.05							
13	Washing and cleaning products (II) (Household use, Institutional use)	a	Surface active agents						1	1	1	1	1		
		b	Softening agents						1	1	1	1	1		
		c	Inorganic alkalis, organic alkalis, inorganic acids, organic acids, bleaching agents						1	1	1	1	1		
		d	Builders and additives (e.g. chelating agents, anti-redposition agents, enzymes, fluorescent brighteners, UV absorbers)						1	1	1	1	1		
		z	Others						1	1	1	1	1		
14	Polishes and wax blends (e.g. for floors, cars, leathers)	a	Waxes						1	1	1	1	1		
		b	Emulsifiers, dispersing agents						1	1	1	1	1		
		z	Others						1	1	1	1	1		
15	Paints and coatings [incl. primers]	a	Resins for paints, resins for coatings	0.000005	0.00005	0.001	0.001	0.001							
		b	Colorants (e.g. dyes, pigments, white agents)	0.000005	0.00005	0.001	0.001	0.001							
		c	Monomers, oligomers for paints, coating materials, binder	0.000005	0.00005	0.001	0.001	0.001							
		d	Crosslinking agents, curing agents, thickeners, polymerization initiators, photoacid generators	0.0001	0.0005	0.001	0.001	0.001							
		e	Plasticizers, fillers	0.0001	0.0005	0.001	0.001	0.001							
		f	Stabilizers	0.0001	0.0005	0.001	0.001	0.001							
		g	Anti-skinning agents, thickeners, anti-foaming agents, anti-blocking agents, levelling agents, conductive agents	0.0001	0.0005	0.001	0.001	0.001							
		h	Emulsifiers, dispersing agents, wetting agents, penetrants, surface conditioners, film-forming agents	0.0001	0.0005	0.001	0.001	0.001							
		i	Corrosion inhibitors, anti-corrosives, preservatives	0.0001	0.0005	0.001	0.001	0.001							
		j	Siccatives, wetting agents, flame retardants, water	0.0001	0.0005	0.001	0.001	0.001							
		z	Others	0.0001	0.0005	0.001	0.001	0.001							
16	Printing ink and toners [incl. ink for stationaries and resist inks]	a	Resins for printing inks, resins for toners	0.00001	0.00001	0.00005	0.0001	0.001							
		b	Colorants (e.g. dyes, pigments), thermosensitive dyes, pressure-sensitive dyes, fluorescent brighteners	0.00001	0.00001	0.00005	0.0001	0.001							
		c	Monomers/oligomers for radiation curable inks, sensitizers, photo initiators	0.00001	0.00001	0.00005	0.0001	0.001							
		d	Plasticizers, fillers	0.00001	0.00001	0.00005	0.0001	0.001							
		e	Stabilizers	0.00001	0.00001	0.00005	0.0001	0.001							
		f	Anti-skinning agents, thickeners, anti-foaming agents	0.00001	0.00001	0.00005	0.0001	0.001							
		g	Emulsifiers, dispersing agents, wetting agents, penetrants, Charge control agents, flow agents, rub resistant agents, slipping agents	0.00001	0.00001	0.00005	0.0001	0.001							
		h	Siccatives, pre-wetting agents	0.00001	0.00001	0.00005	0.0001	0.001							
		z	Others	0.00001	0.00001	0.00005	0.0001	0.001							
17	Antifoulants for ship bottom paints, antifoulants for fish nets	a	Resins for antifoulants [incl. additives]	0.000005	0.00005	0.001	0.001	0.001							
		b	Antifoulants for ship bottom paints	0.0001	0.0005	0.001	0.001	0.001							
		c	Antifoulants for fish nets	0.0001	0.0005	0.001	0.001	0.001							
		z	Others	0.0001	0.0005	0.001	0.001	0.001							
18	Biocidal products (I) [On to/in to articles]	a	Antimicrobial agents (antifungal agents, antibacterial agents), insecticides, preservatives, anti-ant agents	0.0015	0.003	0.003	0.003	0.003							
		b	Spreading agents, emulsifiers	0.0015	0.003	0.003	0.003	0.003							
		z	Others	0.0015	0.003	0.003	0.003	0.003							
19	Biocidal products (II) [Not onto/in to articles] (Industrial use)	a	Biocides for nuisance (insect control agents, insect attractants, insecticide synergists)	0.01	0.01	0.05	0.075	0.075							
		b	Cas sterilants, fumigants	0	0	0	0	0							
		c	Antimicrobial agents (antifungal agents, antibacterial agents), disinfectants, preservatives	0.01	0.01	0.05	0.075	0.075							
		d	Spreading agents, emulsifiers	0.01	0.01	0.05	0.075	0.075							
		z	Others	0.01	0.01	0.05	0.075	0.075							
20	Biocidal products (III) (Household use, Institutional use)	a	Biocides for nuisance						0.1	0.1	0.1	0.1	0.1		
		b	Biocides for fabric insect pest, moth repellent						0	0	0	0	0		
		c	Anti-ant agents						0.05	0.05	0.05	0.05	0.05		
		d	Antimicrobial agents (antifungal agents, antibacterial agents), disinfectants, preservatives						0.1	0.1	0.1	0.1	0.1		
		e	Non-crop land herbicides						0.05	0.05	0.05	0.05	0.05		
		f	Spreading agents, emulsifiers						0.1	0.1	0.1	0.1	0.1		
		z	Others						0.1	0.1	0.1	0.1	0.1		

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UC code (#)	Use Category (UC)	SUC code	Sub Use Category (SUC)	[Industrial Use]					[Household/Institutional use]								
				Emission Factors to Surface water					Emission Factors to STP, etc.								
				Water Solubility (mg/L)					Water Solubility (mg/L)								
<10	10-100	100-1,000	1,000-10,000	≥10,000	<10	10-100	100-1,000	1,000-10,000	≥10,000								
21	Explosive products [incl. fireworks]	a	Low explosives, high explosives, explosive devices[excl. #21-b1, fireworks]	0.0005	0.0005	0.0005	0.0005	0.0005									
		b	Gas generators for automotive safety devices	0.0005	0.0005	0.0005	0.0005	0.0005									
		z	Others	0.0005	0.0005	0.0005	0.0005	0.0005									
22	Air fresheners, deodorizers	a	Fragrances (for washing and cleaning products) [excl. #22-b,c]						1	1	1	1	1	1	1		
		b	Air fresheners						0	0	0	0	0	0	0		
		c	Deodorizers						0	0	0	0	0	0	0		
		d	Emulsifiers, dispersing agents						0	0	0	0	0	0	0		
		z	Others						1	1	1	1	1	1	1		
23	Adhesives and sealants	a	Resins for adhesives, resins for sealants	0.0001	0.0001	0.0005	0.0005	0.001									
		b	Binder components (e.g. monomers, prepolymers, curing agents, curing accelerators, initiators, coupling agents)	0.00005	0.00005	0.00025	0.00025	0.00025									
		c	Plasticizers, fillers	0.00001	0.00001	0.00005	0.0005	0.001									
		d	Stabilizers	0.00001	0.00001	0.00005	0.0005	0.001									
		e	Anti-skimming agents, thickening agents, anti-foaming agents, anti-blocking agents, leveling agents	0.00001	0.00001	0.00005	0.0005	0.001									
		f	Surface control agents, dispersing agents	0.00001	0.00001	0.00005	0.0005	0.001									
		g	Preservatives, antimicrobial agents (antifungal agents)	0.00001	0.00001	0.00005	0.0005	0.001									
		h	Flame retardants, electroconductive agents	0.00001	0.00001	0.00005	0.0005	0.001									
		i	Others	0.00001	0.00005	0.00025	0.0005	0.001									
		a	Photo- electron sensitive resins (e.g. photoresists)	0.001	0.0025	0.01	0.01	0.01									
		b	Monomer/oligomers of photo- electron sensitive resins	0.001	0.001	0.001	0.001	0.0025									
		c	Photoresists, photoreceptors for electrophotography, photopolymerization initiators, photoacid generators	0.001	0.001	0.001	0.001	0.0025									
d	Dye-forming couplers	0.01	0.01														
e	Emulsifiers, dispersing agents	0.01	0.01	0.01	0.01	0.01											
f	Fixing agents, stabilizers	0.01	0.01	0.01	0.01	0.01											
g	Hardening agents, sensitizers, desensitizers, crosslinking density enhancers, polymerization initiators, resist	0.01	0.01	0.01	0.01	0.01											
h	Developers, water-soluble processing agents, resist removers	0.01	0.01	0.01	0.01	0.025											
z	Others	0.01	0.01	0.01	0.01	0.025											
25	Textile products [incl. nonwoven fabric processing]	a	Base materials for articles (synthetic fibers, nonwovens)	0.00005	0.00005	0.00005	0.00005	0.00005									
		b	Coloring agents (e.g. dyes, pigments), fluorescent	0.05	0.05	0.05	0.05	0.05									
		c	Sizing agents	0.05	0.05	0.1	0.15	0.2									
		d	Anti-flaming agents, flame retardants	0.01	0.01	0.01	0.01	0.01									
		e	Impregnated reinforcing agents, dye fixing agents	0.01	0.01	0.01	0.01	0.01									
		f	Anti-static agents, hydrophilic agents	0.01	0.01	0.01	0.01	0.01									
		g	Softening agents	0.05	0.05	0.1	0.15	0.2									
		h	Form stabilizing agents	0.05	0.05	0.1	0.15	0.2									
		i	Water repellent agents, oil repellent agents, water proofing agents, soil resistant, finishing agents	0.01	0.01	0.01	0.01	0.01									
		j	Antimicrobial agents (antifungal agents, antibacterial agents), anti-discoloration agents, UV absorbers	0.01	0.01	0.01	0.01	0.01									
		k	Spinning, knitting and weaving oils, spinning, knitting and weaving oil aids	0.01	0.01	0.025	0.05	0.1									
		l	Washing agents, scouring and washing agents, lubricants	0.05	0.05	0.2	0.2	0.2									
		m	Chelating agents	0.05	0.05	0.1	0.15	0.2									
		n	Bleaching agents, discharging agents	0.05	0.05	0.1	0.15	0.2									
		o	Levelling agents, penetrants, dyeing accelerators, mordanting assistants, printing pastes	0.05	0.05	0.1	0.15	0.2									
		p	Emulsifiers, dispersing agents, anti-ferming agents	0.05	0.05	0.1	0.15	0.2									
		q	Mercerizing assistants	0.05	0.05	0.1	0.15	0.2									
		r	Desizing agents	0.05	0.05	0.1	0.15	0.2									
		z	Others	0.05	0.05	0.2	0.2	0.2									
		26	Paper and board products	a	Colorants (e.g. dyes, pigments), fluorescent brightening	0.01	0.01	0.01	0.01	0.01							
				b	Sizing agents, fixing agents, fillers	0.02	0.02	0.02	0.02	0.02							
				c	Coating agents	0.005	0.005	0.005	0.005	0.005							
d	Anti-flaming agents, flame retardants, anti-static agents			0.005	0.005	0.005	0.005	0.005									
e	Paper strength additives, retention aids, fixing agents, corrosion inhibitors			0.01	0.01	0.01	0.01	0.01									
f	Water repellent agents, oil repellent agents, water			0.005	0.005	0.005	0.005	0.005									
g	Bulking promoters, softening agents			0.01	0.01	0.01	0.01	0.01									
h	Cooking liquors, pH regulators			0.0005	0.0005	0.0005	0.0005	0.0005									
i	Slimicides, pitch control agents			0.005	0.005	0.005	0.005	0.005									
j	Bleaching agents, stabilizers for bleaching bath			0.0005	0.0005	0.0005	0.0005	0.0005									
k	Emulsifiers, dispersing agents, anti-ferming agents, de			0.02	0.02	0.02	0.02	0.02									
z	Others			0.02	0.02	0.02	0.02	0.02									
27	Plastic products			a	Base materials for molded products (e.g. plastics, artificial	0.00001	0.00001	0.00001	0.00001	0.00001							
		b	Super water absorbing materials	0.0001	0.0001												
		c	Plasticizers, dispersing agents	0.00001	0.00001	0.00001	0.00002	0.00002									
		d	Stabilizers	0.00001	0.00001	0.00001	0.00002	0.00002									
		e	Fillers, diluents, polymer decomposition accelerators	0.00001	0.00001	0.00001	0.00002	0.00002									
		f	Nucleating agents	0.00001	0.00001	0.00001	0.00002	0.00002									
		g	Internal lubricants, internal mold release agents	0.00001	0.00001	0.00001	0.00002	0.00002									
		h	Anti-clouding agents, anti-foaming agents	0.00001	0.00001	0.00001	0.00002	0.00002									
		i	Flame retardants, anti-static agents, wavelength conversion agents	0.000005	0.00001	0.00001	0.00002	0.00002									
		j	External lubricants, external mold release agents	0.00002	0.00002	0.00002	0.00002	0.00002									
		k	Foaming agents, radical generators	0.00002	0.00002	0.00002	0.00002	0.00002									
		l	Casting, foam casting materials (e.g. monomers, prepolymers)	0.0001	0.0001	0.0001	0.0001	0.0001									
		m	Curing agents, crosslinking agents, crosslinking aids, sensitizers, polymerization initiators	0.000005	0.00002	0.00002	0.00002	0.00002									
		n	Curing accelerators	0.00002	0.00002	0.00002	0.00002	0.00002									
		x	Other additives (e.g. reforming agents)	0.00001	0.00001	0.00001	0.00002	0.00002									
z	Others	0.0001	0.0001	0.0001	0.0001	0.0001											
28	Rubber products [Colorants : #11]	a	Base materials for molded products (e.g. elastomers,	0.00001	0.00001	0.00001	0.00001	0.00001									
		b	Vulcanization accelerators, vulcanization accelerator activators	0.000005	0.00001	0.00005	0.0001	0.0001									
		c	Vulcanizing agents, crosslinking agents, crosslinking coagents	0.000005	0.00001	0.00005	0.0001	0.0001									
		d	Plasticizers, reinforcing materials, fillers	0.00001	0.00001	0.00001	0.0001	0.0001									
		e	Stabilizers (e.g. anti-degradants, anti-oxidants)	0.00001	0.00001	0.00001	0.00001	0.00001									
		f	Anti-scorch agents, masticating accelerators (peptizing agents), internal lubricants, internal release agents	0.00001	0.00001	0.00001	0.00001	0.00001									
		g	Latex coagulants, emulsifying, dispersing agents, anti-settling agents	0.00005	0.00005	0.00005	0.00005	0.00005									
		h	Flame retardants, anti-static agents	0.00001	0.00001	0.00001	0.00001	0.00001									
		i	External lubricants, external mold release agents	0.00005	0.00005	0.00005	0.00005	0.00005									
		j	Blowing agents	0.000005	0.00001	0.00005	0.0001	0.0001									
		k	Rubber reclaiming agents	0.00005	0.00005	0.00005	0.00005	0.00005									
		x	Other additives	0.00005	0.00005	0.00005	0.0001	0.0001									
z	Others	0.00005	0.00005	0.00005	0.0001	0.0001											
29	Leather products [Colorants : #11]	a	Tanning agents	0.0005	0.0005	0.0015	0.0025	0.0025									
		b	Tanning finishing agents (e.g. bleaching agents, colorants and auxiliaries, water repellent agents, leather oils)	0.0005	0.0005	0.0015	0.0025	0.0025									
		c	Pre-tanning agents (e.g. defatting agents, deliming agents)	0.0025	0.0025	0.0075	0.015	0.015									
		d	Others	0.0025	0.0025	0.0075	0.015	0.015									
		z	Others	0.0025	0.0025	0.0075	0.015	0.015									

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				Water Solubility (mg/L)					Water Solubility (mg/L)				
				<10	10-100	100-1,000	1,000-10,000	≥10,000	<10	10-100	100-1,000	1,000-10,000	≥10,000
30	Glass, enamel and cement products	a	Glass raw materials	0.00005	0.0001	0.0001	0.0005	0.0005					
		b	Glass additives (e.g. tempering agents, sizing agents, anti-clouding agents, UV cutting agents)	0.00005	0.00005	0.00005	0.00005	0.00005					
		c	Glass processing aids (e.g. mold release agents, pH regulators)	0.005	0.005	0.005	0.005	0.005					
		d	Enamel raw materials	0.0001	0.0001	0.0001	0.0005	0.0005					
		e	Enamel additives (e.g. transfer printing agents, materials for frit production)	0.0001	0.0001	0.0001	0.0005	0.0005					
		f	Enamel processing aids (e.g. neutralizing agents, nickel-treatment agents)	0.005	0.005	0.005	0.005	0.005					
		g	Cement raw materials	0.001	0.001	0.01	0.05	0.05					
		h	Cement additives (e.g. additives for blended cements, expansive agents, hardening agents)	0.001	0.001	0.01	0.05	0.05					
	[Colorants : #11]	z	Others	0.005	0.005	0.01	0.05	0.05					
31	Ceramics and porcelain, refractory and fine ceramics products	a	Raw materials of ceramics, raw materials of porcelain, refractory raw materials, fine ceramics raw materials	0.00001	0.0001	0.0001	0.0005	0.0005					
		b	Ceramics additives, porcelain additives, refractories additives, fine ceramics additives (e.g. sintering aids)	0.00001	0.0001	0.0001	0.0005	0.0005					
		c	Molding aids (e.g. binders, thickeners, plasticizers, lubricants, dispersing agents)	0.0001	0.001	0.001	0.005	0.005					
		d	Lubricants, mold release agents	0.0001	0.001	0.001	0.005	0.005					
		e	Others	0.0001	0.001	0.001	0.005	0.005					
			[Colorants : #11, fine ceramics for electron : #38]	z	Others	0.0001	0.001	0.001	0.005	0.005			
32	Grinding wheel, abrasive compound, friction material and solid lubricant	a	Raw materials of grinding wheel, raw materials of abrasive compound, raw materials of friction material	0.00001	0.0001	0.0001	0.0005	0.0005					
		b	Grinding wheel additives, abrasive compound additives, friction material additives, solid lubricant additives	0.0002	0.0002	0.0002	0.001	0.001					
		c	Lubricants, mold release agents	0.0001	0.001	0.001	0.005	0.005					
			[Colorants : #11]	z	Others	0.0002	0.001	0.001	0.005	0.005			
33	Metal products [Raw materials of metal and alloy : #1, colorants : #11, surface treatment products : #34, welding and soldering products : #35, metal working fluids : #37]	a	Metal additives (e.g. inoculation agents)	0.00005	0.00005	0.0005	0.005	0.005					
		b	Metalworking aids (e.g. fluxes)	0.002	0.002	0.01	0.02	0.1					
		c	Molding sand binders, curing agents for binders, molding sand additives	0.0002	0.0002	0.002	0.02	0.1					
		d	Release agents	0.0002	0.0002	0.002	0.02	0.1					
			[Colorants : #11]	z	Others	0.002	0.002	0.01	0.02	0.1			
34	Surface treatment chemicals [Defatting and/or cleaning agents used for pre- or post-treatment of plating : #04 (non-aqueous, semi-aqueous) or #12 (aqueous)] [excl. #4-6, 12-15, 17, 25-27, 30-32, 38, 44]	a	Plating agents	0.002	0.002	0.002	0.002	0.002					
		b	Plating bath additives	0.002	0.002	0.002	0.002	0.002					
		c	Chemical conversion coating agents	0.002	0.002	0.002	0.002	0.002					
		d	Vacuum plating agents (for e.g. chemical vapor deposition), thermal spraying agents	0.005	0.005	0.01	0.025	0.025					
		e	Surface-hardening treatment agents (for e.g. carburizing, nitriding)	0.005	0.005	0.01	0.025	0.025					
		f	Fluorinating agents, silvating agents	0.005	0.005	0.01	0.025	0.025					
		g	Etching agents, sputter etching agents, abrasive blasting materials	0.002	0.002	0.002	0.002	0.02					
			[Colorants : #11]	z	Others	0.005	0.005	0.01	0.025	0.025			
				z	Others	0.005	0.005	0.005	0.01	0.01			
35	Welding and soldering products	a	Welding fluxes	0.005	0.005	0.005	0.01	0.01					
		b	Brazing and soldering fluxes (e.g. anti-oxidant materials for solder bath)	0.005	0.005	0.005	0.01	0.01					
		c	Welding gas, gas for fusion cutting	0	0	0	0	0					
			[Colorants : #11]	z	Others	0.005	0.005	0.005	0.01	0.01			
36	Hydraulic fluids, insulating oils, process oils, lubricating oils (e.g. engine oils, bearing oils, compressor oils, greases)	a	Base oils for hydraulic fluids, lubricating oils	0.00005	0.00005	0.0001	0.0005	0.001					
		b	Base oils for insulating oils	0.00005	0.00005	0.0001	0.0005	0.001					
		c	Base oils for process oils	0.00001	0.00001	0.0001	0.0005	0.001					
		d	Thickeners	0.00005	0.00005	0.0001	0.0005	0.001					
		e	Additives for hydraulic fluids, lubricating oils	0.00005	0.00005	0.0001	0.0005	0.001					
		f	Additives for insulating oils	0.00005	0.00005	0.00005	0.00005	0.00005					
		g	Additives for process oils	0.00001	0.00001	0.00001	0.00001	0.00001					
			[Colorants : #11]	z	Others	0.00001	0.00001	0.0001	0.0005	0.001			
37	Metalworking fluids (e.g. cutting oils, rolling oils, press oils, quenching oils, rust preventive oils)	a	Base oils for water-soluble metalworking fluids	0.005	0.005	0.005	0.005	0.005					
		b	Base oils for water-insoluble metalworking fluids, rust	0.005	0.005	0.005	0.005	0.005					
		c	Additives for water-soluble metalworking fluids	0.005	0.005	0.005	0.005	0.005					
		d	Additives for water-insoluble metalworking fluids, rust	0.005	0.005	0.005	0.005	0.005					
			[Colorants : #11]	z	Others	0.005	0.005	0.005	0.005	0.005			
38	Electrical and electronic products [incl. chemicals used for production of subject materials]	a	Magnetic materials (excl. #38-f), electrical conductive materials, superconductive materials, fluorescent	0.0005	0.0005	0.0005	0.0005	0.0005					
		b	Semiconductor materials, organic semiconductor	0.0005	0.0005	0.0005	0.0005	0.0005					
		c	Dielectric materials, electrical resistance materials, solid electrolytic materials, electrolytic solution materials	0.0005	0.0005	0.0005	0.0005	0.0005					
		d	Optical waveguide materials (incl. optical fibers), optical film materials, optical materials for electronic devices	0.0005	0.0005	0.0005	0.0005	0.0005					
		e	Encapsulation materials, insulating materials, shielding materials	0.0005	0.0005	0.0005	0.0005	0.0005					
		f	Electronic storage media materials	0.0005	0.0005	0.0005	0.0005	0.0005					
			[Colorants : #11]	z	Others	0.0005	0.0005	0.0005	0.0005	0.0005			
39	Electrical batteries	a	Solid electrolytes, electrolytic solution materials, electrical insulators, battery separators	0.00005	0.00005	0.00005	0.0005	0.0005					
		b	Electrode materials (e.g. cathode and anode active materials, current collectors, current collectors, binders)	0.00005	0.00005	0.00005	0.0005	0.0005					
		c	Others	0.00005	0.00005	0.00005	0.0005	0.0005					
			[Colorants : #11]	z	Others	0.00005	0.00005	0.00005	0.0005	0.0005			
40	Water treatment chemicals	a	Corrosion and rust preventive agents, scale inhibitors, alcidides	0.01	0.01	0.05	0.1	0.1					
		b	Metal ion scavengers, sequestering agents, water	0.01	0.01	0.05	0.1	0.1					
		c	Ion exchangers, separation membranes	0.00005	0.00005	0.00005	0.0005	0.0005					
		d	Oxidants, reductants, pH regulators	0.001	0.001	0.005	0.01	0.01					
		e	Anti-foaming agents, flocculants, filter aids, dewatering aids, ion exchange resin regeneration agents	0.01	0.01	0.01	0.025	0.025					
			[Colorants : #11]	z	Others	0.01	0.01	0.05	0.1	0.1			
41	Desiccants and absorbents	a	Desiccants	0.005	0.005	0.025	0.04	0.04					
		b	Absorbents (e.g. deodorizers, denitration agents, gas absorbents)	0.005	0.005	0.025	0.04	0.04					
		c	Absorbents (e.g. oxygen scavengers)	0.005	0.005	0.025	0.04	0.04					
			[Colorants : #11]	z	Others	0.005	0.005	0.025	0.04	0.04			
42	Heat transfer fluids	a	Refrigerants, coolants	0.0001	0.0001	0.005	0.01	0.01					
		b	Heating mediums	0.0001	0.0001	0.005	0.01	0.01					
			[Colorants : #11]	z	Others	0.0001	0.0001	0.005	0.01	0.01			
43	Anti-freeze and de-icing products	a	Anti-freezing agents	0.0001	0.0005	0.001	0.002	0.005					
		b	Anti-corrosive agents, corrosive inhibitors	0.0001	0.0005	0.001	0.01	0.025					
			[Colorants : #11]	z	Others	0.0001	0.0005	0.001	0.01	0.025			
44	Additives for building materials and constructional articles (e.g. concrete admixtures, Wood impregnating agents)	a	Surface hardening agents	0.001	0.001	0.01	0.05	0.05					
		b	Concrete admixtures (e.g. air entraining agents, water-reducing agents)	0.001	0.001	0.01	0.05	0.05					
		c	Release agents, anti-foaming agents	0.001	0.001	0.01	0.05	0.05					
		d	Wood impregnating agents, additives to wooden plates	0.001	0.001	0.01	0.05	0.05					
		e	Antifoulants (excl. #17-b, c), water proofing agents, water	0.001	0.001	0.01	0.05	0.05					
			[Colorants : #11]	z	Others	0.001	0.001	0.01	0.05	0.05			
45	Additives for building materials and constructional articles (e.g. snow melting agents, soil conditioners, fire extinguisher agents)	a	Anti-freezing agents (e.g. snow melting agents)	0.5	0.5	0.75	0.9	0.9					
		b	Soil conditioners (for e.g. soil improvements, soil stabilizations)	0.5	0.5	0.75	0.9	0.9					
		c	Fire extinguisher agents	0.5	0.5	0.75	0.9	0.9					
		d	Nucleating agents	0.5	0.5	0.75	0.9	0.9					
		e	Dispersants for oil spill	0.5	0.5	0.75	0.9	0.9					
		f	Dust binding agents	0.5	0.5	0.75	0.9	0.9					
			[Colorants : #11]	z	Others	0.5	0.5	0.75	0.9	0.9			

