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	담당 부서	환경부 화학물질과	이지윤 과장/ 서해엽 사무관 02-2110-7961		

국가소유 화학물질 독성자료 REACH 등록에 활용할 수 있는 길 열렸다

◇ 환경부는 '88년부터 생산·관리해온 화학물질 독성자료를 국내외 기업들이 REACH 등록에 활용할 수 있도록 그 사용을 허가한다고 발표
- 사용허가 조건 및 사용허가 절차를 위한 규정이 정비되는 10월 중에 본격적으로 사용허가 예정

□ 환경부는 REACH 등록기한이 임박함에 따라 산업체의 등록서류 작성에 활용되는 화학물질 독성자료에 대한 수요가 높아짐을 감안하여 환경부가 생산·보유한 약 600여종의 화학물질에 대한 독성자료를 기업들이 REACH 등록에 사용할 수 있도록 허가한다고 밝혔다.

※ REACH : EU내에서 제조 또는 수입되는 화학물질 및 제품에 대해 유럽화학물질청(ECHA)에 등록·평가·허가(신고) 및 제한을 받도록 하는 EU의 '新화학물질관리제도'

※ REACH 등록기한 : EU에서 연간 1000톤 이상 제조·수입되는 물질은 '10.11.30, 100~1000톤 제조·수입되는 물질은 '13.5.31, 1~100톤 제조·수입되는 물질은 '18.5.31까지 등록

○ REACH 등록은 기술서류(TD) 및 화학물질 안전성보고서(CSR)를 작성하여 이를 유럽화학물질청에 제출함으로써 이루어지는데 이들 서류의 작성에는 발암성, 유전독성 등 화학물질에 대한 최대 62개 항목의 독성자료들이 필요하다.

※ TD(Technical Dossier) : 등록자의 정보, 화학물질 기본정보 등 포함

CSR(Chemical Safety Report) : 화학물질의 인체·환경 유해성 정보, 노출정보 등 포함

○ 한편, 환경부는 '88년부터 화학물질관리 정책수립 기반 자료의 확보를 위하여 매년 국내 유통 화학물질 중 약 20여 종씩 독성평가 사업을 실시해 왔으며,('08년 기준 585종) 이 사업에서 생산된 자료들을 환경부가 운영하는 화학물질정보시스템(<http://ncis.nier.go.kr>)을 통하여 공개해왔다.

- 하지만 REACH 규정에 의하면 기업들이 직접 생산하여 보유한 독성자료나 제3의 소유자가 그 사용을 허가한 자료에 대해서만 등록자료로 인정하고 있어 기업들은 막대한 비용을 들여 독성자료를 생산하거나 자사가 필요한 자료를 소유한 제3자에게 일정비용을 지불하고 사용을 허가받아 등록을 준비하는 실정이다.
- 이에 환경부는 REACH 등록을 준비하는 기업들에 대한 지원을 위하여 그동안 국가가 생산한 독성자료를 활용할 수 있도록 소정의 절차를 통하여 그 사용을 허가하기로 한 것이다.
- 환경부 관계자는 독성자료는 기본적으로 환경부 예산으로 생산된 국유재산이므로 「국유재산법」에 따라 그 사용의 허가 시 사용료를 징수하는 것이 불가피하다하면서도 그 사용료가 실제 자료생산에 소요되는 비용보다 훨씬 저렴(시험비용의 5%수준)하기 때문에 기업들의 등록소요 비용절감에 매우 도움이 될 것으로 본다고 밝혔다.
- 또한 현재 주로 외국기업들이 사용허가를 문의해오고 있는 상황임을 감안하여 국내기업 뿐 아니라 외국기업에게도 허가할 방침이며 사용료 수익은 국내 독성DB 확충 등 국내 산업을 위한 공익적 목적에 활용할 계획이라고 밝혔다.
- 환경부는 관계부처 협의 등을 거쳐 독성자료의 사용허가조건 및 그 절차에 대한 규정을 마련하여 10월말부터는 본격적으로 사용허가를 시행할 계획이다.

붙임 : 1. 환경부가 독성자료 생산한 화학물질 목록
 2. REACH 등록에 필요한 독성자료 목록

붙임 1

환경부가 독성자료 생산한 화학물질 목록

년 도	물 질	년 도	물 질
1988	dichloromethane	1997	4,4'-Sulfonyldianiline
	trichloroethylene		a,a'-Dimethyl benzylhydroperoxide
	decabromodiphenyl oxide		anthraquinone
	toluenediisocyanate		1-Naphthol
	chlorinated paraffin		biphenyl
1989	윤활유첨가제		benzoyl peroxide
	피혁염색보조제		1,2-dichlorobenzene
	aniline		1,2,4-trimethylbenzene
	N,N-dimethylformamide		(epoxiethyl)benzene
	benzene		methylethylketoxim
	propylene oxide		2-nitro-p-anosidine
	tetrabromobisphenol-A		benzoyl chloride
	tolyhydroquinone		p-nitroanisole
	cumene		benzonitrile
	triethanolamine		triphenyl phosphite
	1,3,5-trimethylbenzene		4,4'-methylenebis[2-chloroaniline]
	diethylene glycol		hexyl cinnamic aldehyde
	dimethylterephthalate		glycerol triacetate
	ethyl acrylate		tributylamine
	decabromodiphenyl oxide		2-Ethylhexyl acetate
	hydrazine hydrate		benzyl ether
	chlorinated paraffin		acetanilide
	ethylene oxide adduct		n-acetyl-4-aminophenol
1990	linear alkylbenzene		p-toluene sulfonic acid
	isopropyl alcohol		diethylmalonate
	p-toluene sulfonamide		p-bromoaniline
	n-butanol		p-chlorophenol
	tetrabromobisphenol-A		isobutylacrylate
	phthalic anhydride		cyclohexanol
	tolyhydroquinone		1-chloro-3-bromopropane
	methylacrylate		maleic acid
	p-toluenesulfonylchloride		methyl decanoate
	p-nitrochlorobenzene		pyridine
	styrene		n-hexylamine
	hexamine		n-octyl alcohol
	4,4-diphenylmethanediisocyanate		n-decyl alcohol
	2-ethylhexylalcohol		oleylamine
	vinylacetate		dioctyl phthalate
	methylisobutylketone		2,4,6-tribromophenol
	diethylamine		methylsalicylate
	tri(2-chloroethyl)phosphate		2-phenoxyethanol
	2,2'-dithiobis(benzothiazole)		adipic acid

	o-toluenesulfonyl chloride		2-amino-2-methyl-1-propanol
	heptane		2,6-di-tert-butyl-p-cresol
	2-mercaptobenzothiazole		dimethyl phthalate
	dimethyl hydrogen phosphite		benzyl acetate
	diheptyl phthalate		triethylene glycol mo
	creosote		4-aminobenzoic acid
	ethylene glycol		2,4-diclorophenyl p-nitrophenyl ether
	s-benzyl 0,0-diisopropyl phosphorothioate		sec-butylamine
1991	ethylene oxide adduct		diisodecyl phenyl phosphite
	linear alkylbenzene		octadecanoic acid
	4,4-bis(4-methoxy-6-aminobenzene-1,3,5-triazine-2-amino)stilben disulfonic acid disodium salt		6-aminohexanoic acid
	PL550	1998	sulfamethoxy pyridazine
	p-toluene sulfonamide		1-chloro-2-nitrobenzene
	2-methylbenzenesulfonamide		N-phenyl-1-naphthalamine
	naphthalene		o-acetoaceto-toluidide
	3,3-dichlorobenzidine		indene
	p-toluenesulfonylchloride		2,4-Bis(1,1-dimethylethyl)phenol
	p-nitrochlorobenzene		2-furanmethanol
	4,4-diphenylmethanediisocyanate		hexyl cinnamic aldehyde
	1,4-butandiol		p-bromoaniline
	diethanolamine		chlorobenzene
	anthracene		1-Bromo-3-chloropropane
	2,2'-dithiobis(benzothiazole)		N,N'-ethylenedi(stearamide)
	2,4-dinitrotoluene		n-hexylamine
	sulfanilic acid		N,N,N-trimethyl-1-hexadecanaminium chloride
	azodicarbon amide		(Z)-9-octadecenoic acid
	butyl acetate		phenyl salicylate
	o-toluenesulfonyl chloride		4-(acetylamino)benzenesulfonyl chloride
	heptane		Benzyl dimethyloctadecyl ammonium chloride
	2-mercaptobenzothiazole		(2-hydroxyethyl) ammonium mercaptoacetate
	2,6-dinitrotoluene		C.I. disperse yellow 054
	amsonic acid		(Z)-a-9-Octadecenyl-w-hydroxypoly(oxy-1,2-ethane diyl)
	sodium tripolyphosphate		octadecanoic acid, ester with 1,2,3-propanetriol
	creosote		sec-butylamine
1992	p-toluene sulfonamide		1-amino-4-hydroxy-2-phenoxyanthraquinone
	trimethylol propane		4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane
	bisphenol-A		diisodecyl phenyl phosphite
	2-methylbenzenesulfonamide		isononyl alcohol
	tolyhydroquinone		C.I. disperse blue 056
	p-toluenesulfonylchloride		1-hexadecanol

	4,4-diphenylmethanediisocyanate	1999	1,8-diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indole-1-acetic acid
	methylacetoacetate		C.I. reactive blue 222
	cyclohexanone		oxybenzenesulfonyl hydrazine
	ethyleneglycolmonobutylether		phthalic acid
	diethanolamine		2,7-naphthalene disulfonic acid
	2,2'-dithiobis(benzothiazole)		2-methoxy-p-cresol
	2,4-dinitrotoluene		dinitrosopentamethylenetetramine
	sulfanilic acid		3'-aminoacetanilide
	o-toluenesulfonyl chloride		1-(dimethylamino)-2-propanol
	butyl acrylate		N,N,N-trimethyl-1-hexadecanaminium chloride
	2,6-dinitrotoluene		4-(acetylamino)benzenesulfonyl chloride
	c.I. Acid orange 7		9,10-Anthracenedione, 1,4-diamino-
	amsonic acid		pigment yellow34
	c.I. Acid black 1		sodium 2-methylprop-2-ene-1-sulphonate
	c.I. Disperse yellow 3		C.I. disperse blue 3
	c.I. Direct black 38		sodium 2-propene-1-sulfonate
	c.I. Basic yellow 2		C.I. dieperse yellow3
	c.I. Fluorescent brightener134		C.I. disperse red 001
	c.I. disperse orange 30		C.I. disperse red 017
	c.I. acid black 94		ethyltriphenylphosphonium iodide
	c.I. disperse blue 60		1,2-benisothiazolin-3-one, 1,1
	c.I. disperse blue 79		C.I. disperse violet 026
	c.I. fluorescent brightener 220		C.I. disperse yellow 054
	c.I. reactive black 5		tetrasodium pyrophosphate
	thiophanate		malonate
	octabromodiphenyl oxide		1-amino-4-hydroxy-2-phenoxyanthraquinone
	1,2-bis(2,4,6-tribromophenoxy)ethane		ethylene-propylene-ethylidenenorbornene polymer
1993	glycerol	1993	tribromophenol
	trimethylol propane		epoxy resin
	2-methylpropanenitrile		C.I. disperse blue 056
	1,2-propylenediamine		amines, coco alkyl, ethoxylate
	1,3-phenylenediamine-4-sulfenicacid		imidazolium compound, 4,5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl), Me sulfates
	benzothiazyl-2-cyclohexylsulfenicacid		2-[(2-cyanoethyl)[4-[(6-nitrobenzothiazol-2-yl)azo]phenyl]amino]ethyl acetate
	2-chlorobenzeneamine		acrylate copolymer
	1,3-dichloro-2-propanol		Anthraquinone, 1-((2-hydroxyethyl)-4-(methylamino)
	benzylamine		C. I. Disperse red 83
	1,3-diphenylguanidine		N-acetylsulfanilyl chloride
			Ethylene propylene-diene terpolymer

	glycidylacrylate	2000	Hexadecanoic acid
	1-bromo-2-chloroethane		(S)- Aminophenylpropionic acid
	n-butylchloride		2-Hydroxy-N,N,N-trimethylethanaminium chloride
	but-2-ene-1,4-diol		4,4'-Oxybis(benzenesulfonyl hydrazide)
	diisopropanolamine		3a,4,7,7a-Tetrahydro-1,3-isobenzofurandione
	pentaerythritol		2-Amino-5-chloro-4-methylbenzenesulfonic acid
	hexamethylenediamine		2-Methyl-2-propenoic acid 2-methylpropyl ester
	neopentylglycol		Carprolactam
	N,N-dimethylacetamide		Dimepranol
	2-ethylhexanoic acid		Isobutyl acetate
	3,4-dichlorobenzotrifluoride		2-Butoxyethanol acetate
	dicyanodiamine		Dodecane
	4-aminopyridine		(Z)-9-Octadecenoic acid methyl ester
	4,4-dipyridyl		(Z)-13-Docosenamide
	c.I. Acid orange 7		(Z)-13-Docosenoic acid
	N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine		Triphenyl phosphate
	N-methylpyrrolidone		2,4,6-Tribromophenol
	c.I. Disperse yellow 3		1,3-Benzenedicarboxylic acid
	2,4-di-t-butyl-6-(5-chlorobenzotriazol-2-yl)phenol		Sodium dimethyldithiocarbamate
	c.1. disperse orange 30		Dodecanoic acid
	3-ethoxypropylamine		Tridecane
	thionyl chloride		Pentanedioic acid dimethyl ester
	c.1. disperse blue 60		2-Butanone, peroxide
	c.1. disperse blue 79		Calcium stearate
	tris(2,4-di-t-butylphenyl)phosphite		8-Amino-1-naphthol-3,6-disulfonic acid monosodium salt
	ethylenebis(oxyethylene)bis[3-(5-t-butyl-4-hydroxy-m-tolyl)propane		Octadecanoic acid barium salt
1994	nitromethane	2001	Hydroxybutanedioic acid
	nitroethane		C. I. Disperse yellow 054
	diisobutylphthalate		Sodium lignosulfonate
	dinonylphthalate		Dodecylbenzenesulfonic acid
	9H-carbazole		Phenol, isopropylated, phosphate (3:1)
	4-chloro-3,5-dimethylphenol		Nonylphenol
	dibenzo-1,4-thiazine		Branched 4-nonylphenol
	2,5-dichloroaniline		4-tert-Octylphenol
	2-methyl-2-propenoic acid 2-propenyl ester		calcium sulfate dihydrate
	p-t-butylbenzoic acid		Tetramethylammonium hydroxide
	3-cyanopyridine		3,5-Bis(1,1-dimethyl-4-hydroxybutyl)-2,2-bis[3-[3,5-bis(1,1-dimethyl-4-hydroxybutyl)-1-oxypropyl]phenyl]-1,3-propanediol ester
	phenoxybenzene		p-Aminodi- phenylamine
	phenylisocyanate		Octadecyl 3-(3,5-di-t-butyl-4-hydroxy

			phenyl) propionate
	4-chlorophenylisocyanate		1,2,5,6,9,10-Hexabromocyclododecane
	propylamine		tert-Dodecanethiol
	m-aminochlorobenzene		1,2-Benzisothiazol-3(2H)-one 1,1-dioxide, sodium salt
	n-butylchloride		Octadecanoic acid 1,2-ethanediyl ester
	dimethoxymethane		Toluenesulfonamide
	2-(2-mehtoxyethoxyethanol)		Styrenated phenol
	2-(2-ehtoxyethoxyethanol)		3-Amino-N-(carboxymethyl)-NN-dimethyl 1-propanaminium N-coco acyl derivs., hydroxides, inner salts
	2-(2-mehtoxyethoxy)ethoxy)ethanol		Benzene, di(C=12-14) alkyl derivs.
	2-(2-ehtoxyethoxy)ethoxy)ethanol		Alcohols, (C=8-10)-iso-, (C=9)-rich,
	octadecylisocyanate		Benzenesulfonic acid dodecyl ester
	ditridecylphthalate		2-[(4-Aminophenyl)sulfonyl] ethanol hydrogensulfate (ester)
	trimethylphosphate		C.I. reactive red 195
	2-chloro-4-nitroaniline		C.I. reactive yellow 145
	2-(2-butoxyethoxy)ethanol acetate		Isophthalic acid
	neopentylglycol		Dodecylbenzenesulfonic acid
	2,6-di-t-butylphenol		Isobuthyl methacrylate
	dodecylmethacrylate	2002	Dibutyltin oxide
	bis(2-ethylhexyl)phosphate		Methylpyrazine
	3,4-dichlorobenzotrifluoride		Sodium thiosulfate pentahydrate
	dicyanodiamine		Diundecyl phthalate
	2,4-dichloroaniline		3-[(4-Amino-2-methyl-5-pyrimidinyl) methyl]-5-(2-hydroxyethyl)-4-methylthiazolium chloride monohydrochloride
	triphenylphosphine		3-Hydroxy-2-naphthalenecarboxylic acid
	dimethyldisulfide		1,1-Oxybisethane 휘발성
	2-ethylhexylmethacrylate		1-Tridecanol
	tritolyphosphate		Nitrilotriacetic acid trisodium salt
	m-phenylene bismethylamine		1,1-Oxybis-2-propanol
	6-tert-butyl-2,4-xyleneol		Disodium diphosphate
	propenamide, homopolymer		3-Ethoxypropanoic acid ethyl ester
	triixylenyl phosphate		1,3-Benzenedicarbonitrile
	diphenyl tolylphosphate		Tetramethyl ammonium chloride
	diisodecyl phthalate		Bis(1-methyl-1-phenylethyl) peroxide
	Ethanaminium N,N,N-trimethyl[(1-oxo-2-propenyl)oxy] chloride polymer with 2-propenamide		2-Propanol titanium(4+) salt
	Ethanaminium N,N,N-trimethyl-2-[(2-methyl-1-oxopropenyl)oxy]chloride with 2-propenamide and N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]ethanaminium chloride copolymer of acrylanide acryloyloxyethyltrimethylbenzyl ammonium chloride and acryloyloxyethyltrimethylammonium chloride	2003	Copper monochloride
			Magnesium chloride
1995	2,4-dinitrophenol		13-isopropyl-Podocarpa-7,13-dien-15-oic

			acid
	triethylphosphate		Sodium dodecylbenzenesulfonate
	tributoxyethylphosphate		Isophorone diamine
	isobutylamine		2-(1-Methylpropyl)phenol
	1-chloroanthraquinone		2-Aminoethanesulfonic acid
	dinonylphthalate		2-Isopropyl-6-methyl-4(1H)-pyrimidinone
	9H-carbazole		2,2-Dimethoxy-1,2-diphenylethanone
	4-chloro-3,5-dimethylphenol		Methanesulfonyl chloride
	2-nitroaniline		Methyl laurate
	2-hydroxynitrobenzene		Neodecanoic acid 2,3-epoxypropyl ester
	4-chloro-2-nitroaniline		1,4-Cyclohexanedimethanol
	2-methoxyphenol		2,3-dihydro-3-(acetyloxy)-5-(2-(dimethyl-amino)ethyl)-2-(4-methoxyphenyl)-,mono hydrochloride, cis-(+)-1,5-Benzothiazepin-4(5H)-one
	1,2,4-trimethylbenzene		Magnesium sulfate (1:1)
	3,4-dichloroaniline	2004	3,3-Dichloro[1,1-biphenyl]-4,4-diamine dihydrochloride
	1,2,3-trichloropropane		N,N-Bis(2-hydroxyethyl)dodecanamide
	2-nitro-p-anosidine		1-Amino-4-bromo-9,10-dihydro-9,10-dioxo-2-anthracene-aulfonic acid
	1-tert-butyl-4-methylbenzene		Ethyl carbamate
	a-methylstyrene		2-Naphthalenesulfonic acid
	m-nitrotoluene		Sorbitan monooleate
	3-nitroaniline		2-Methyl-1,3-propanediol
	1,2-dichloro-4-nitro-benzene		2,3-Dihydro-2,2-dimethyl-7-benzofuranol
	p-nitrotoluene		5-Guanylic acid disodium salt
	4-nitroaniline		Dilauryl thiodipropionate
	4-hydroxynitrobenzene		Tetrahydro-5-methyl-1,3-isobenzofurandione
	4-vinylpyridine		2-Ethylhexanoic acid cobalt (2+) salt
	diphenylmethane		2-(Cyclohexylthio)-1H-isoindole-1,3(2H)-dione
	N,N-dimethylbenzylamine	2005	Phosphoric acid
	4-methoxyaniline		Tricalcium phosphate
	p-diethylbenzene		Methyl cyclopentane
	glycidyl metacrylate		Dipropylene glycol
	ethylene diamine		Acenaphthalene
	allyl alcohol		Methylnaphthalen
	N,N-dimethyl-N-ethanolamine		2,2',6,6'-Tetrabromobisphenol A diallyl ether
	3-methylaniline		Triisonoyl trimellitate
	2-chloropyridine		Bispentaerythritol didphosphite
	2-methoxyethanol		Dimethyl isophthalate
	ethyleneglycol monoethyl ether		Cyclic neopentantetrally bis (octadecyl phosphite)

	di-isobutylamine		1-Amino-4-bromo-9,10-dihydro-9,10-dihydro-2-anthracene-sulfonic acid
	2-(2-aminoethylamino)ethanol		2-Naphthalenesulfonic acid
	di-n-butylamine		2,3-Dihydro-2,2-dimethyl-7-benzofuranol
	bis(cyanoethyl)amine		Tetrahydro-5-methyl-1,3-isobenzofurandione
	triethylamine	2006	Calcium fluoride
	diphenylamine		2,4-Dihydroxybenzophenone
	2,4-pentanedione		4,4-Dihydroxydiphenyl
	tri-n-butylphosphate		2-Methyl-6-tert-butylphenol
	2-hydroxy-4-methoxybenzophenone		C.I. Reactive blue 19
	monoethanolamine		Glycol stearate
	4-methyl-3-pentene-2-one		2-(2H-Benzotriazol-2yl)-4-methylphenol
	2,4-dichloroaniline		2-Ethyl anthraquinone
	3,4-dinitrotoluene		Lactic acid
	c.I. Modant black 7		2-Heptanone
	c.I. disperse yellow 163		Ethyl cyanoacetate
1996	thiourea		Calcium carbonate
	diethylsulfate		Dimethyl isophthalate
	mercatoacetic acid	2007	Sorbital; D-Glucitol
	acetonitrile		Calcium disilicide
	hexachloropentadiene		Trisodium orthophosphate
	dicyclopentadiene		Titanium tetrachloride
	methacrylic acid		n-octylchloride
	4,4'-Sulfonyldianiline		Tripotassium orthophosphate
	a,a'-Dimethyl benzylhydroperoxide		Tripotassium hexafluoroaluminate
	benzylbutyl phthalate		(1-Hydroxycyclohexyl)phenylmethanone
	2-nitroaniline		Barium hydroxide
	o-chlorobenzylaldehyde		Lead sulfate
	o-anisidine		Barium nitrate
	1-Naphthol	2008	1-Pentanol
	2,4-Diamino-6-phenyl-s-triazine		Sodium hydrogensulfite
	benzoyl peroxide		Cobalt oxide
	(epoxiethyl)benzene		Ammonium carbonate
	chloroacetic acid methyl ester		2-Hydroxy-1,2-diphenylethanone
	2-nitro-p-anosidine		Hydrocortisone acetate
	ethyl methacrylate		Lithium fluoride (LiF)
	benzoyl chloride		Ammonium fluoride ((NH ₄)F)
	a-chlorotoluene		L-Glutamic acid
	4,4'-methylene dianiline		Manganese oxide
	dicyclohexylamine		Manganese tetraoxide

	2-ethylhexyl acrylate		Manganese trioxide
	p-toluene sulfonic acid		1-Methylnaphthalene
	p-chlorophenol		Thiram
	2-propyn-ol		Calcium distearate
	2-methyl-2,4-pentanediol		Calcium hydrogenorthophosphate
	cyclohexylamine		
	cyclohexanol		
	n-butylamine		
	glutaraldehyde		
	2-butyne-1,4-diol		
	bis(2-methoxyethyl)ether		
	2,4-dichlorophenol		
	2-phenoxyethanol		
	p-dioxane		
	diallyl phthalate		
	1-(2-aminoethyl)piperazine		
	dipropylamine		
	cyanamide		
	2,4-toluene dilsocyanate		
	2,4-diclorophenyl p-nitrophenyl ether		

붙임 2

REACH 등록서류 작성에 요구되는 독성자료

대분류	상세 항목	대분류	상세 항목
물리화학적 특성 (17)	물질의 상태	인체독성 (계속)	태아 발달독성 시험
	녹는점/어는점		단기반복투여독성시험(28일)
	끓는점		생식/발달 독성 스크리닝
	상대밀도		2세대 생식독성 시험
	증기압		독성 동태학(Toxicokinetics)
	표면장력		발암성 시험
	수용해도		아만성 독성시험(90일)
	n-옥탄올/ 물 분배계수		생식 독성
	인화점	환경독성 (25)	수생 독성
	인화성		무척추 동물 단기독성
	폭발성		수생식물 성장억제 시험
	자연발화온도		어류 단기독성 시험
	산화성		활성 오니 호흡 저해 시험
	입도분석(Granulometry)		무척추 동물 장기독성
	유기용매 내 안정성 및 관련 분해산물의 정보(identity)		어류 장기독성시험
	해리상수(dissociation constant)		분해(Degradation)
	점도		이분해성(Biotic)
			지표수에서 궁극적 분해에 대한 시험
인체독성 (20)	피부 자극 또는 피부 부식 눈 자극		비생물적 pH에 따른 가수분해
	피부 과민성		환경에서의 거동과 동태
	돌연변이원성(Mutagenicity)		흡착/탈착 스크리닝
	박테리아 돌연변이원성		생물 농축성 환경중거동
	포유류 세포발생 시험 또는 소핵 시험 돌연변이원성		흡착/탈착에 대한 추가 정보
	포유류세포의 유전자 돌연변이 원성		물질 및 분해 산물의 환경 거동 정보
	급성독성		육상생물에 대한 영향
	급성 경구 독성		무척추동물 단기독성
	급성 흡입 독성		토양 미생물에 대한 영향
	급성 피부 독성		식물 단기독성
	반복 투여 독성		동물 장기독성
			식물 장기독성
			퇴적미생물 장기독성
			퇴적유기체 장기독성
			조류 장기 또는 생식독성