

Standard Information Requirements for Registration of Substances under REACH
(indicating additional requirements with increasing tonnages)

Annex VII ref.	>1 tonne	Annex VIII ref.	>10 tonnes	Annex IX ref.	>100 tonnes	Annex X ref.	>1000 tonnes	Annex VII Estimated Cost (£)	Annex VIII Estimated Cost (£)	Annex IX Estimated Cost (£)	Annex X Estimated Cost (£)
PHYSICO-CHEMICAL PROPERTIES											
7,1	State of substance at 20°C and 101.3 kPa										
7,2	Melting/freezing point							565			
7,3	Boiling point							565			
7,4	Relative density							565			
7,5	Vapour pressure							2.625			
7,6	Surface tension							655 or 1,225			
7,7	Water solubility							3.365			
7,8	Partition coefficient n-octanol/water							2,355 or 3,640			
7,9	Flash-point							565			
7,10	Flammability							565			
7,11	Explosive properties							320 or 3,325			
7,12	Self-ignition temperature							1,000 or 1,880			
7,13	Oxidising properties							320 or 2,300			
7,14	Granulometry							565 or 2,300			
				7,15	Stability in organic solvents and identity of relevant degradation products					4,000 per solvent (+ 5,500 - 11,000)	
				7,16	Dissociation constant					5.230	
				7,17	Viscosity					1.075	

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TOXICOLOGICAL PROPERTIES											
8,1	Skin irritation or skin corrosion							695 - 1,305			
		8.1.1	<i>In vivo</i> skin irritation						820		
8,2	Eye irritation							570 - 790			
		8.2.1	<i>In vivo</i> eye irritation						820		
8,3	Skin sensitisation							1.825			
8,4	Mutagenicity										
8.4.1	<i>In vitro</i> gene mutation study in bacteria							1.945			
		8.4.2	<i>In vitro</i> cytogenicity study in mammalian cells						12.680		
		8.4.3	<i>In vitro</i> gene mutation study in mammalian cells						15.010		
				{8.4.n	<i>In vivo</i> mutagenicity}					{8,000 - 26,000}	
8,5	Acute toxicity										
8.5.1	By oral route							845			
		8.5.2	By inhalation						4,085 or 9,770 (+ 2,635 or 8,005)		
		8.5.3	By dermal route						1.020		
		8,6	Repeated dose toxicity								
		8.6.1	Short-term repeated dose toxicity study (28 days)						31,385 (+ 4,550 - 6,570)		
				8.6.2	Sub-chronic toxicity study (90-day)					90.000	
						8.6.3	Long-term repeated toxicity study (>12 months)				200.000
						8.6.4	Further studies				poa

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TOXICOLOGICAL PROPERTIES											
		8,7	Reproductive toxicity								
		8.7.1	Screening for reproductive/developmental toxicity						34,895 (+ 4,550 - 6,520)		
				8.7.2	Pre-natal developmental toxicity study					50.000	
						8.7.2	Developmental toxicity study				50.000
				8.7.3	Two-generation reproductive toxicity study					250.000	
						8.7.3	Study on second species				
		8,8	Toxicokinetics								
		8.8.1	Assessment of toxicokinetic behaviour of substance (as derived from relevant available information)						57,765 (+ 4,805 - 6,730)		
						8,9	Carcinogenicity				
						8.9.1	Carcinogenicity study				500.000

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ECOTOXICOLOGICAL INFORMATION											
9.1	Aquatic toxicity										
9.1.1	Short-term toxicity testing in invertebrates (Daphnia)							1.725			
9.1.2	Growth inhibition study aquatic plants (algae)							2.210			
		9.1.3	Short-term toxicity testing on fish						2,070 or 2,485 (+ 3,355 - 5,380)		
		9.1.4	Activated sludge respiration inhibition testing						1.930		
				9.1.5	Long-term toxicity testing on invertebrates (Daphnia)					20.000	
				9.1.6	Long-term toxicity testing on fish					32,000 - 38,000	
				9.1.6.1	Fish early-life (FELS) toxicity test						
				9.1.6.2	Fish short-term toxicity test on embryo and sac-fry stages						
				9.1.6.3	Fish, juvenile growth test						

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ECOTOXICOLOGICAL INFORMATION											
9,2	Degradation										
9.2.1	Biotic										
9.2.1.1	Ready biodegradability							2,585 - 4,440			
				9.2.1.2	Simulation testing on ultimate degradation in surface water					25,000 - 100,000	
				9.2.1.3	Soil simulation testing (if high potential for adsorption to soil)					50,000 - 100,000	
				9.2.1.4	Sediment simulation testing (if high potential for adsorption to sediment)					25,000 - 100,000	
						9.2.1	Further testing as required				100,000 - 200,000
		9.2.2	Abiotic								
		9.2.2.1	Hydrolysis as a function of pH						3,555 or 8,525		
				9.2.3	Identification of degradation products						

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ECOTOXICOLOGICAL INFORMATION											
		9,3	Fate and behaviour in the environment								
		9.3.1	Adsorption/desorption screening						695 or 3,155		
				9.3.2	Bioaccumulation in aquatic species, preferably fish					60,000 - 80,000	
				9.3.3	Further information on adsorption/ desorption (depending on Annex VI study)						
						9.3.4	Further information on the environmental fate and behaviour of the substance and/or degradation products				poa
				9,4	Effects on terrestrial organisms						
				9.4.1	Short-term toxicity to invertebrates						
				9.4.2	Effects on soil microorganisms						
				9.4.3	Short-term toxicity to plants						
						9.4.4	Long-term toxicity testing on invertebrates				15,000 - 20,000 (+ poa)
						9.4.6	Long-term toxicity testing on plants				

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ECOTOXICOLOGICAL INFORMATION											
						9,5	Effects on sediment organisms				
						9.5.1	Long-term toxicity to sediment organisms				30,000 - 40,000
						9,6	Effects on birds				
						9.6.1	Long-term or reproductive toxicity to birds				poa