

Table S1. Test items required for chemical substance registration

Classification	Test items
Physical and chemical properties (13 items)	Physical state, water solubility, melting/freezing point, boiling point, vapor pressure, octanol-water partition coefficient, density, particle size, flammability, explosiveness, oxidation, viscosity, dissociation constant
Human hazards (15 items)	Acute oral toxicity (acute inhalation toxicity), revers mutation, skin irritation/corrosiveness, skin hypersensitivity, acute dermal toxicity (acute inhalation toxicity), eye irritation/corrosiveness, chromosome aberration using mammalian culture cells, genetic toxicity using test animals, subacute toxicity (28 days), reproductive and developmental toxicity, additional genetic toxicity (genetic toxicity of germ cells, etc.), subchronic toxicity (90 days), teratogenicity, 2nd-generation reproductive toxicity, carcinogenicity
Environmental hazards (19 items)	Fish acute toxicity, biodegradation (ready), water flea acute toxicity, freshwater algae growth inhibition, pH-dependent hydrolysis, biodegradation (inherent), verification of degradation product, fish chronic toxicity, water flea chronic toxicity, land plant acute toxicity, land invertebrate acute toxicity, activated sludge respiration inhibition, adsorption and desorption, additional information on environmental behavior and movement, land plant chronic toxicity, land invertebrate chronic toxicity, additional information on adsorption and desorption, benthos chronic toxicity, bioaccumulation