Annex 1 – Dossier endpoint matrix

NB: **r** means that an endpoint study record is required for this endpoint. **o** means that endpoint study records are optional for this endpoint.

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4	**Physical and chemical properties**												
4.1	Appearance / physical state / colour	7	7.1		r	r	r	r	r	o	o	r	o
4.2	Melting point / freezing point	7	7.2		r	r	r	r	r	o	o	r	o
4.3	Boiling point	7	7.3		r	r	r	r	r	o	o	r	o
4.4	Density	7	7.4		r	r	r	r	r	o	o	r	o
4.5	Particle size distribution (Granulometry)	7	7.14		r	r	r	r	r	o	o	r	o
4.6	Vapour pressure	7	7.5		r	r	r	r	r	o	o	r	o
4.7	Partition coefficient	7	7.8		r	r	r	r	r	o	o	r	o
4.8	Water solubility	7	7.7		r	r	r	r	r	o	o	r	o

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4.10	Surface tension	7	7.6		r	r	r	r	r	o	o	r	o
4.11	Flash point	7	7.9		r	r	r	r	r	o	o	r	o
4.12	Auto flammability	7	7.12		r	r	r	r	r	o	o	r	o
4.13	Flammability	7	7.10		r	r	r	r	r	o	o	r	o
4.14	Explosiveness	7	7.11		r	r	r	r	r	o	o	r	o
4.15	Oxidising properties	7	7.13		r	r	r	r	r	o	o	r	o
4.17	Stability in organic solvents and identity of relevant degradation products	9	7.15		o	o	o	r	r	o	o	o	o
4.21	Dissociation constant	9	7.16		o	o	o	r	r	o	o	o	o
4.22	Viscosity	9	7.17		o	o	o	r	r	o	o	o	O
5	**Environmental fate and pathways**												
5.1.2	Hydrolysis	8	9.2.2.1		o	o	r	r	r	o	o	o	o

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5.2.1	Biodegradation in water: screening tests	7	9.2.1.1	At least one complete endpoint study record must contain in the field "Test type" either "Ready biodegradability" or "other" (with the adjacent field filled in).	o	r	r	r	r	o	o	r	o
5.2.2	Biodegradation in water and sediment: simulation tests	9	9.2.1.2 (water) 9.2.3	For 100-1000T and >1000T, REACH requires 2 data (a test for REACH 9.2.1.2 and a test for 9.2.1.4). However, a single study (a water/sediment test) could cover both requirements. Therefore to be complete this IUCLID 5 section 5.2.2 needs only to contain 1 complete endpoint study record.	o	o	o	r	r	o	o	o	o
		9	9.2.1.4 (sediment) 9.2.3		o	o	o	r	r	o	o	o	o
5.2.3	Biodegradation in soil	9	9.2.1.3 9.2.3		o	o	o	r	r	o	o	o	o
5.3.1	Bioaccumulation: aquatic / sediment	9	9.3.2		o	o	o	r	r	o	o	o	o

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5.4.1	Adsorption / desorption	8	9.3.1		o	o	r	r	r	o	o	o	o
6	**Ecotoxicological Information**												
6.1.1	Short-term toxicity to fish	8	9.1.3		o	o	r	r	r	o	o	o	o
6.1.2	Long-term toxicity to fish	9	9.1.6		o	o	o	r	r	o	o	o	o
6.1.3	Short-term toxicity to aquatic invertebrates	7	9.1.1		o	r	r	r	r	o	o	r	o
6.1.4	Long-term toxicity to aquatic invertebrates	9	9.1.5		o	o	o	r	r	o	o	o	o
6.1.5	Toxicity to aquatic algae and cyano-bacteria	7	9.1.2	A complete endpoint study record must be provided either in 6.1.5 or in 6.1.6.	o	r	r	r	r	o	o	r	o
6.1.6	Toxicity to aquatic plants other than algae	na	not req.		o	o	o	o	o	o	o	o	o

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6.1.7	Toxicity to micro-organisms	8	9.1.4		o	o	r	r	r	o	o	o	o
6.2	Sediment toxicity	10	9.5.1	For >1000T, the "Test duration type" should be "long-term toxicity".	o	o	o	o	r	o	o	o	o
6.3.1	Toxicity to soil macro-organisms except arthropods	9	9.4.1 (short-term)	For 100-1000T, 1 short-term or long-term test must be provided either in 6.3.1 or in 6.3.2. For >1000T, 1 long-term test must be provided either in 6.3.1 or 6.3.2.	o	o	o	r	r	o	o	o	o
		10	9.4.4 (long-term)		o	o	o	o	r	o	o	o	o
6.3.2	Toxicity to terrestrial arthropods	9	9.4.1 (short-term)		o	o	o	r	r	o	o	o	o
		10	9.4.4 (long-term)		o	o	o	o	r	o	o	o	o
6.3.3	Toxicity to terrestrial plants	9	9.4.3 (short-term)	For 100-1000T, 1 short-term or long-term test must be provided. For >1000T, 1 long-term test must be provided.	o	o	o	r	r	o	o	o	o
		10	9.4.6 (long-term)		o	o	o	o	r	o	o	o	o

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6.3.4	Toxicity to soil micro-organisms	9	9.4.2		o	o	o	r	r	o	o	o	o
6.3.5	Toxicity to birds	10	9.6.1	For R>1000T, the "Test type" should be "reproduction toxicity" or "other" (with the adjacent field filled in).	o	o	o	o	r	o	o	o	o
7	**Toxicological information**												
7.2.1	Acute toxicity: oral	7	8.5.1		o	r	r	r	r	o	o	r	o
7.2.2	Acute toxicity: inhalation	8	8.5.2		o	o	r	r	r	o	o	o	o
7.2.3	Acute toxicity: dermal	8	8.5.3		o	o	r	r	r	o	o	o	o
7.3.1	Skin irritation / corrosion	7	8.1 (in vitro skin corrosion)	For 1-10T standard requirements and	o	r	r	r	r	o	o	r	o

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		7	8.1 (in vitro skin irritation)	transported isolated intermediates above 1000T, 1 endpoint study record must be provided (1 in-vivo or 1 in-vitro with a possible new guideline that covers corrosion and irritation). For >10T, 1 in-vivo endpoint study record must be provided.	o	r	r	r	r	o	o	r	o
		8	8.1.1 (in vivo skin irritation)		o	o	r	r	r	o	o	o	o
7.3.2	Eye irritation	7	8.2 (in vitro)	For 1-10T standard requirements and transported isolated intermediates above 1000T, 1 in-vitro or 1 in vivo endpoint study record must be provided. For >10T: 1 in-vivo endpoint study record must be provided.	o	r	r	r	r	o	o	r	o
		8	8.2.1 (in vivo)		o	o	r	r	r	o	o	o	o
7.4.1	Skin sensitisation	7	8.3 (in-vivo)		o	r	r	r	r	o	o	r	o

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7.5.1	Repeated dose toxicity: oral	8	8.6.1 (short-term)	For 10-100T, 1 endpoint study record (short-term) must be provided either in 7.5.1 or 7.5.2 or 7.5.3. For >100T, 1 sub-chronic test must be provided either in 7.5.1 or 7.5.2 or 7.5.3.	o	o	r	r	r	o	o	o	o
		9	8.6.2 (sub-chronic)		o	o	o	r	r	o	o	o	o
7.5.2	Repeated dose toxicity: inhalation	8	8.6.1 (short-term)		o	o	r	r	r	o	o	o	o
		9	8.6.2 (sub-chronic)		o	o	o	r	r	o	o	o	o
7.5.3	Repeated dose toxicity: dermal	8	8.6.1 (short-term)		o	o	r	r	r	o	o	o	o
		9	8.6.2 (sub-chronic)		o	o	o	r	r	o	o	o	o
7.6.1	Genetic toxicity: in vitro	7	8.4.1 (in vitro gene mutation in bacteria)	For 1-10T standard requirements and transported isolated intermediates above 1000T, 1	o	r	r	r	r	o	o	r	o

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		8	8.4.2 (in vitro cytogenicity in mammalian cells or in vitro micronucleus)	study must be provided. For >10T: This IUCLID 5 section corresponds to 3 REACH Annex numbers. However only 2 studies are sufficient for completeness (e.g. if there is a positive result in 8.4.1 or in 8.4.2, then 8.4.3 does not need to be provided).	o	o	r	r	r	o	o	o	o
		8	8.4.3 (in vitro gene mutation in mammalian cells)		o	o	r	r	r	o	o	o	o
7.8.1	Toxicity to reproduction	8	8.7.1 (screening)	For 10-100T, 1 screening study must be provided. For >100T, 1 two-generation study must be provided.	o	o	r	r	r	o	o	o	o
		9	8.7.3 (two-generation)		o	o	o	r	r	o	o	o	o
7.8.2	Developmental toxicity / teratogenicity	9	8.7.2		o	o	o	r	r	o	o	o	o