

## **Supporting Information**

for

### **The eNanoMapper database for nanomaterial safety information**

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### **OECD WPMN recommended endpoints**

*Supplemental file Endpoints recommended by OECD WPMN and relation to CODATA UDS and  
ISA-TAB-Nano*

#	Endpoints agreed by the OECD WPMN	OECD HT (XML schema)	CODATA UDS	ISA-TAB-Nano
<b>Nanomaterial Information / Identification</b>				
1	Nano material name	SUBSTANCE	Information Category/ General Identifiers	Material file
2	CAS number	SUBSTANCE	Information Category/ Characterisation/Chemical composition	Material file
3	Structural formula/molecular structure	SUBSTANCE	Information Category/ Characterisation/Chemical composition	Material file
4	Composition of NM being tested (incl. degree of purity, known impurities or additives)	SUBSTANCE	Information Category/ Characterisation/Chemical composition; Information Category/ Characterisation/Physical structure	Material file
5	Basic Morphology	GI_GENERAL_INF FORM	Information Category/ Characterisation/Physical structure	Material file
6	Description of surface chemistry (e.g. coating or modification)	SUBSTANCE SURFACE_CHEMISTRY	Information Category/ Characterisation/Surface description	Material file (nominal) Assay file (measured)
7	Major commercial uses	PRODUCT_TYPE_U SE, DIRECTIONS_FOR _USE		
8	Known catalytic activity	CATALYTIC_ACTI VITY	Information Category/ Characterisation/Intensi ve properties	Assay file
9	Method of production (e.g. precipitation, gas phase)	SUBSTANCE	Information Category/ Production, Specification	Study file (protocol)
<b>Physical-chemical Properties and Material Characterization</b>				
10	Agglomeration / aggregation	AGGLOMERATION _AGGREGATION	Information Category/ Characterisation/Physical structure	Assay file, Data file
11	Water solubility	PC_WATER_SOL	Information Category/ Characterisation/Interac tion	Assay file, Data file
12	Crystalline phase	CRYSTALLINE_PH ASE	Information Category/ Characterisation/ Crystallographic structure	Assay file, Data file
13	Dustiness	DUSTINESS		Assay file, Data file

14	Crystallite size	CRYSTALLITE_AND_GRAIN_SIZE	Information Category/ Characterisation/ Crystallographic structure	Assay file, Data file
15	Representative TEM picture(s)	ATTACHMENTDOCUMENT		Assay file, Data file
15	Particle size distribution	PC_GRANULOMETRY	Information Category/ Characterisation/ Size	Assay file, Data file
17	Specific surface area	SPECIFIC_SURFACE_AREA	Information Category/ Characterisation/ Surface description	Assay file, Data file
18	Zeta potential (surface charge)	ZETA_POTENTIAL_SECTION	Information Category/ Characterisation/ Interaction	Assay file, Data file
19	Surface chemistry (where appropriate)	SURFACE_CHEMISTRY	Information Category/ Characterisation/ Surface description	Assay file, Data file
20	Photo-catalytic activity	PHOTOCATALYTIC_ACTIVITY	Information Category/ Characterisation/ Interaction	Assay file, Data file
21	Pour density	POUR_DENSITY	Information Category/ Characterisation/ Intensive properties	Assay file, Data file
22	Porosity	POROSITY	Information Category/ Characterisation/ Intensive properties	Assay file, Data file
23	Octanol-water partition coefficient, where relevant	PC_PARTITION	Information Category/ Characterisation/ Intensive properties	Assay file, Data file
24	Redox potential		Information Category/ Characterisation/ Interactions	Assay file, Data file
25	Radical formation	RADICAL_FORMATION_POTENTIAL	Information Category/ Characterisation/ Interactions	Assay file, Data file
26	Other relevant information (where available)	PC_OTHER		Assay file, Data file
<b>Environmental Fate</b>				
27	Dispersion stability in water			Assay file, Data file
<b>Biotic degradability</b>				
28	- Ready biodegradability	TO_BIODEGRATER_SCREEN	Information Category/ Characterisation/ Interactions	Assay file, Data file
29	- Simulation testing on ultimate degradation in surface water	TO_BIODEGRATER_SIM	Information Category/ Characterisation/ Interactions	Assay file, Data file
30	- Soil simulation testing		Information Category/ Characterisation/ Interactions	Assay file, Data file

			Characterisation/Interactions	file
31	Sediment simulation testing		Information Category/Characterisation/Interactions	Assay file, Data file
32	- Sewage treatment simulation testing		Information Category/Characterisation/Interactions	Assay file, Data file
33	Identification of degradation product(s)	EN_MAIN_DEGRADATION	Information Category/Characterisation/Interactions	Assay file, Data file
34	Further testing of degradation product(s) as required		Information Category/Characterisation/Interactions	Assay file, Data file
<b>Abiotic degradability and fate</b>				
35	- Hydrolysis, for surface modified nanomaterials	TO_HYDROLYSIS	Information Category/Characterisation/Interactions	Assay file, Data file
36	Adsorption- desorption	EN_ADSORPTION	Information Category/Characterisation/Interactions	Assay file, Data file
37	Adsorption to soil or sediment	EN_STABILITY_IN_SOIL	Information Category/Characterisation/Interactions	Assay file, Data file
38	Bioaccumulation potential	EN_BIOACCUMULATION	Information Category/Characterisation/Interactions	Assay file, Data file
39	Bioaccumulation in sediment	EN_BIOACCUTERR	Information Category/Characterisation/Interactions	Assay file, Data file
<b>Environmental Toxicology</b>				
40	Effects on pelagic species (short/ long term)	EC_FISHTOX, EC_CHRONFISHTOX, EC_DAPHNIATOX, EC_CHRONDAPHNIATOX, EC_ALGAETOX	Information Category/Characterisation/Interactions	Assay file, Data file
41	Effects on sediment species (short/ long term)	EC_SEDIMENTDWELLINGTOX	Information Category/Characterisation/Interactions	Assay file, Data file
42	Effects on soil species (short/ long term)	EC_SOILDWELLINGTOX	Information Category/Characterisation/Interactions	Assay file, Data file
43	Effect on terrestrial species	EC_PLANTTOX, EC_HONEYBEESTOX	Information Category/Characterisation/Interactions	Assay file, Data file
44	Effect on micro-organisms	EC_SOIL_MICROTOX, EC_BACTOX	Information Category/Characterisation/Interactions	Assay file, Data file

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45	Other relevant information		Information Category/ Characterisation/Interactions	Assay file, Data file
<b>Mammalian Toxicology</b>				
46	Pharmacokinetics (ADME)		Information Category/ Characterisation/Interactions	Assay file, Data file
47	Acute Toxicity	TO_ACUTE_ORAL, TO_ACUTE_INHAL , TO_ACUTE_DERMAL	Information Category/ Characterisation/Interactions	Assay file, Data file
48	Repeated dose toxicity	TO_REPEATED_ORAL, TO_REPEATED_INHAL TO_REPEATED_DERMAL	Information Category/ Characterisation/Interactions	Assay file, Data file
49	Chronic toxicity	TO_CARCIINOGENICITY, TO_SENSITIZATION	Information Category/ Characterisation/Interactions	Assay file, Data file
50	Reproductive toxicity	TO_REPRODUCTI ON	Information Category/ Characterisation/Interactions	Assay file, Data file
51	Developmental toxicity	TO_DEVELOPMEN TAL	Information Category/ Characterisation/Interactions	Assay file, Data file
52	Genetic toxicity	TO_GENETIC_IN_V ITRO, TO_GENETIC_IN_V IVO	Information Category/ Characterisation/Interactions	Assay file, Data file
53	Experience with human exposure	TO_EXPOSURE_OT HER	Information Category/ Characterisation/Interactions	Assay file, Data file
54	Other relevant test data	TO_OTHER	Information Category/ Characterisation/Interactions	Assay file, Data file
<b>Material Safety</b>				
55	Flammability	PC_AUTO_FLAMM, PC_FLAMM	Information Category/ Characterisation/Interactions	Assay file, Data file
56	Explosivity		Information Category/ Characterisation/Interactions	Assay file, Data file
57	Incompatibility		Information Category/ Characterisation/Interactions	Assay file, Data file