

APPENDIX 1: NanoRiskCat●●●|●● Template

Literature methodology/sources of information

The following sources of information were used to fill out the NanoRiskCat●●●|●●:

1. Not relevant as the nanomaterial used is not reported

Human hazard profile

1. **HARN: Does the nanomaterial fulfill the HARN paradigm?**

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

2. **Bulk – “Level A CLP”: Is the bulk form of the nanomaterial known to cause or may cause serious damaging effects?**

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

3. **Bulk – “Level B CLP”: Is the bulk form of the nanomaterial classified for other less adverse effects according to the CLP?**

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

4. **Nano – Acute toxicity: Is the specific nanomaterial known to be acute toxic?**

Answer: Unknown

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Arguments and explanation: Not known as the nanomaterial used is not reported

5. Are there indications that the nanomaterial causes genotoxic-, mutagenic-, carcinogenic-, respiratory-, cardiovascular, neurotoxic or reproductive effects in humans and/or laboratory animals or has organ-specific accumulation been documented?

Answer: Unknown

Arguments and explanation:

- a. Genotoxicity and mutagenicity:
Not known as the nanomaterial used is not reported

- b. Respiratory tract toxicity:
Not known as the nanomaterial used is not reported

- c. Cardiovascular toxicity:
Not known as the nanomaterial used is not reported

- d. Neurotoxicity:
Not known as the nanomaterial used is not reported

- e. Reproductive damage:
Not known as the nanomaterial used is not reported


- f. Carcinogenicity:
Not known as the nanomaterial used is not reported

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- g. Does the nanomaterial accumulate in tissue and/or organs?:

Not known as the nanomaterial used is not reported

6. Overall evaluation of human hazard

We conclude that the color-code that best reflects the human hazard profile of the nanomaterial used is  as the identity of the nanomaterial is not reported

Environment hazard profile

1. Bulk – “Level A CLP”: Is the bulk form of the nanomaterial classified as CLP Acute 1 or Chronic 1 or Chronic 2?

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

2. Nano – $LC_{50} < 10$ mg/l: Is the nanomaterial in question reported to be hazardous to environmental species i.e. LC_{50} or $EC_{50} < 10$ mg/l?

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

3. Bulk – “Level B CLP”: Is the bulk form of the nanomaterial classified as CLP Chronic 3 or Chronic 4 or documented nano-specific effects?

Answer: Unknown

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Arguments and explanation: Not known as the nanomaterial used is not reported

4. Nano – LC50<100 mg/l: Is the nanomaterial in question reported to be hazardous to environmental species i.e. LC50 or EC 50 <100 mg/l?

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

5. T_{1/2}>40 days: Is the nanomaterial in question persistent i.e. T_{1/2}>40 days?

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

6. BCF>50: Is the nanomaterial in question bioaccumulative i.e. BCF>50?

Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

7. Dispersive or long-range transport, ecosystem effects?


Answer: Unknown

Arguments and explanation: Not known as the nanomaterial used is not reported

- a. Is the nanomaterial dispersive?
- b. Could use of the nanomaterial in question lead to potentially irreversible harm to the environment (e.g. ecosystem effects)?
- c. Novelty

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8. Overall evaluation of environmental hazard

We conclude that the color-code that best reflects the environmental hazard profile of the nanomaterial used is  as the identity of the nanomaterial is not reported