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. LC50 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 Chonic 3 or Chronic 4 or documented nano-specific effects?**

   Answer: Unknown

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. **T½>40 days: Is the nanomaterial in question persistent i.e. T½>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**

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