## APPENDIX 1: NanoRiskCat●●●|●● Template

## Literature methodology/sources of information

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

1. Relevant literature was identified through ICON The Virtual Journal of Nanotechnology Environment, Health and Safety http://www.icon.rice.edu/advancedsearch.cfm searching for articles that use "Zinc" in Keyword(s) or Word(s) in the Abstract.

## Human hazard profile

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

   **Answer: No data**

   **Arguments and explanation:** No information available

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

   **Answer: No**

   **Arguments and explanation:** Zn is not classified in the Annex VI of Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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

   **Answer: No**

   **Arguments and explanation:** Zn is not classified in the Annex VI of Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending

and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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

   **Answer: No data**

   **Arguments and explanation:** No information available

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: No data**

   **Arguments and explanation:**

   a. Genotoxicity and mutagenicity: No information available
   b. Respiratory tract toxicity: No information available
   c. Cardiovascular toxicity: No information available
   d. Neurotoxicity: No information available
   e. Reproductive damage: No information available
   f. Carcinogenicity: No information available
   g. Does the nanomaterial accumulate in tissue and/or organs?:

      No information available

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 no information is available on human health hazards of nano Zn

## APPENDIX 1: NanoRiskCat●●●|●● Template

## 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: No**

   **Arguments and explanation:** Zn is not classified in the Annex VI of Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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: No data**

   **Arguments and explanation:** No information available

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: No**

   **Arguments and explanation:** Zn is not classified in the Annex VI of Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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: No data**

**Arguments and explanation:** No information available

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

   **Answer: No data**

   **Arguments and explanation:** No information available

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

   **Answer: No data**

   **Arguments and explanation:** No information available

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

   **Answer: No data**

   **Arguments and explanation:** No information available

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 no information is available on human health hazards of nanoZn