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| **RISK ASSESSMENT OF NANOPARTICLES/MATERIALS** |
| Nanoparticles/materials can be substances naturally occurring or precision-engineered at the nanoscale, i.e. in the size range of approximately 10-9 to 10-7 metres, at which point unique or enhanced properties occur. Examples of these substances include carbon black, carbon nanotubes, oxides, metals, quantum dots, nano-powders, dendrimers/fibres, bio-inspired nanomaterials, colloidal dispersions and nano-clays. This Risk Assessment is required to be completed by all workers and students who intend to use, manipulate and/or produce nanomaterials within their teaching or research activities. It must be provided to their Manager/Supervisor for approval. Health and Safety assistance with this process is available. Please allow 5 day turnaround for feedback. |
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| **Chemical Name/Procedure Title** | Click here to enter text. |
| **Department/Laboratory/Area** | Click here to enter text. | **Location of use, manipulation or production** | Click here to enter text. |
| **Assessment conducted by**  | Click here to enter name. | **Assessment date** | Click here to enter a date. |
| **Approved By** | Click here to enter text. | **Approval date** | Click here to enter a date. |
| **PROCEDURE DESCRIPTION**  |
| **Please provide description of tasks/processes involving the use, manipulation and/or production of Nanomaterials:** **Relevant legislation, codes of practice, standards, copy of any Safe Work Procedures (SWP) and other documents applicable to this activity.** Click here to enter text. |

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| **NANOPARTICLE LISTING:** **Note: All chemicals used must be listed and have a current, compliant Australian SDS.** |
| **Nanomaterial details.**  **Define the characteristics of the fibre/particle (for example, substance type e.g. TiO2, ZnO, or boron nitride nanotubes** | **Category**  | **Form** | **Physical State** | **Type of Nanotube** | **NT bound together tightly or loosely** | **Particle/ fibre length****nm** | **Particle/ fibre width****nm** | **Frequency of Use** | **Quantity handled daily** | **Major Handling Operation** |
| Click here to enter text. | Select | Select | Select | Select | Select |  Length  |  Width  | Select | Select | Select |
| Click here to enter text. | Select | Select | Select | Select | Select | Length |  Width  | Select | Select | Select |
| Click here to enter text. | Select | Select | Select | Select | Select | Length |  Width  | Select | Select | Select |
| Click here to enter text. | Select | Select | Select | Select | Select | Length |  Width  | Select | Select | Select |
| Is a poison permit required for use of any of the above chemicals  | [ ]  Y [ ]  N |
| Are any of the chemicals a [**scheduled carcinogen**](https://www.legislation.wa.gov.au/legislation/statutes.nsf/law_a147282_subsidiary.html)? (Part 7.1 – Division 8) If yes, a WorkSafe permit is required. Please attach a copy   | [ ]  Y [ ]  N |

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| **TOXICOLOGY HAZARDS**  |
| Derma (via skin) | [ ]  Y [ ]  N | Eyes | [ ]  Y [ ]  N | Inhalation |  [ ]  Y [ ]  N  | Ingestion | [ ]  Y [ ]  N  | Injection | [ ]  Y [ ]  N  |
| **ADDITIONAL HAZARDS** |
| Biological | [ ]  Y [ ]  N  | Cytotoxic | [ ]  Y [ ]  N  | Ergonomic | [ ]  Y [ ]  N  | Lasers | [ ]  Y [ ]  N  |
| Manual Handling  | [ ]  Y [ ]  N  | Mechanical | [ ]  Y [ ]  N  | Radiation | [ ]  Y [ ]  N  | Electrical | [ ]  Y [ ]  N  |
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| Chemical | [ ]  Y [ ]  N  | Plant & Equipment | [ ]  Y [ ]  N  | Contamination | [ ]  Y [ ]  N  | Environment | [ ]  Y [ ]  N  |

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| **If you answer YES to any of the above, please enter them into the risk assessment table below.** |

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| **RISK ASSESSMENT – Assess the risk of exposure from each of the task/activities using the Health and Safety** [**risk matrix**](http://healthandsafety.curtin.edu.au/local/docs/Health_and_Safety_Risk_Matrix.pdf) |
| **HAZARD** | **CONSEQUENCES** | **LIKELIHOOD** | **RISK** | **CONTROLS** | **RESIDUAL RISK** |
| Sample preparation e.g. weighing, measuring, opening packages, decanting, moving | Select | Select | Select | Click here to enter text. | Select |
| Mechanical processes e.g. scraping, mixing, cutting, grinding, abrasion, agitation  | Select | Select | Select | Click here to enter text. | Select |
| Aerosol, dust, fume or vapour generation (including solutions, suspensions, slurries) | Select | Select | Select | Click here to enter text. | Select |
| Spraying/coating/painting | Select | Select | Select | Click here to enter text. | Select |
| Release of NTs from processing/packaging/coatings/ wrappings | Select | Select | Select | Click here to enter text. | Select |
| Potential environmental release and impact* Release to air
* Release to water
* Release to sewer
* Release to land
 | Select | Select | Select | Click here to enter text. | Select |
| Click here to enter text. | Select | Select | Select | Click here to enter text. | Select |
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| **DISPOSAL PROCESSES** |
| **ITEM/S** | **METHOD** | **BY WHOM/WHEN?** |
| PPE disposal | Click here to enter text. | Click here to enter text. |
| Waste disposal | Click here to enter text. | Click here to enter text. |