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| **RISK ASSESSMENT FOR ENGINEERED NANOPARTICLES/MATERIALS** | | | | | | |
| Nanoparticles/materials are substances 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 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 staff 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 Safety and Emergency Management assistance with this process is available. Please allow 5 day turnaround for feedback. | | | | | | |
|  | | | | | | |
| **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.**  **Outline sources of relevant health and safety information, legislation or attach a copy of any Safe Work Procedures (SWP)**  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.slp.wa.gov.au/legislation/statutes.nsf/main_mrtitle_1853_homepage.html)? (Part 5 – Division 3) If yes, a WorkSafe permit is required. Please attach a copy | | | | | | | | | | Y  N | |

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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 |
| Click here to enter text. | 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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| 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. |