



Federal Ministry
of Education
and Research



German Federal Ministry of Education and Research
project no.: 03XP0002 // 01.05.2015 // 3 years // total cost: 3.927.920,00 €

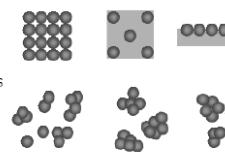
Nanosafety and Classification for protection of occupational, consumer and environmental safety in additional regard to risk minimizing

nanoGRAVUR – Gruppierung hinsichtlich Arbeits-, Verbraucher- und Umweltschutz und Risikominimierung



Source to Adverse Outcome Pathway

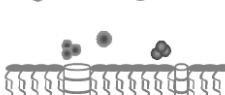
Powder
Embedded in matrix
or on surfaces
Changes of phys.-chem. properties



Aerosol
Suspension
Deposition in the lung,
Alveolar, intestinal, dermal absorption



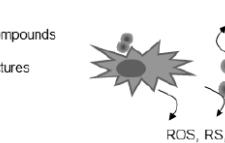
Surface coating changes
Agglomeration, disagglomeration



crossing of biological barriers
Tissue distribution,
Intracellular distribution



Inflammation
Catalysing formation of reactive compounds
Ion release
Direct interaction with cellular structures



Organ toxicity



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