BUILDING BLOCK VII:
Report on work system planning and risk assessment of fibres (CNT), which are handled in a laboratory

For whom is it suitable?
Safety experts in universities and companies

What does it provide?
The report is a **work experience report prepared by** a safety expert with a **brief** complementary **presentation** and a **dialogue guide**. A main focus of the work experience report consists in the approach followed by a safety expert including operation steps analysis, risk assessment, target setting, development of alternative solutions, selection and implementation of the solution, and efficiency control. The presentation is an example of how occupational health and safety issues can be briefly presented to managerial personnel.

Where can it be found?
This document can be found on the enclosed USB stick in the folder "field studies" and at the specified webpages of "Nano to go!"

BUILDING BLOCK VIII:
Supplementary items

Blank forms and examples:
- blank forms for operating instruction, sampling protocol and dialogue guide
- an example for a standard operating procedure and an operating instruction
- more items will appear in later updates

Where can it be found?
The supplementary items can be found on the enclosed USB stick in the folder "general" and at the specified webpages of "Nano to go!"

Links to webpages:

www.baua.de/nanoToGo
www.nanovalid.eu/nanoToGo
www.nanosafetycluster.eu/nanoToGo

The NanoValid project

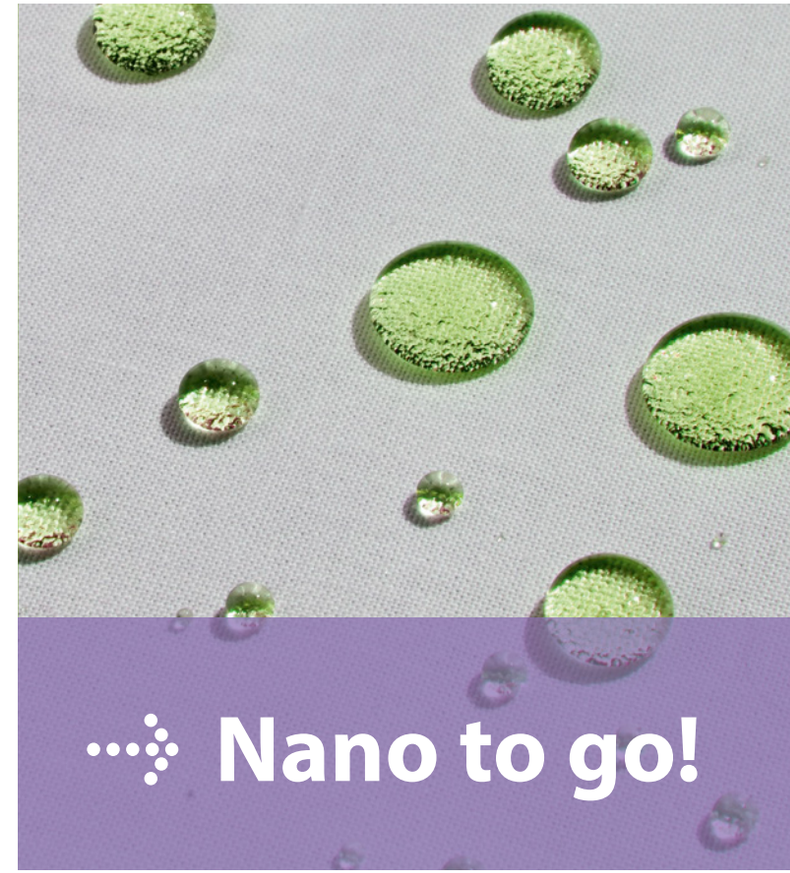
The EU FP7 large-scale integrating project NanoValid was launched on November 2011 as one of the "flagship" nanosafety projects. The project consists of 24 European partners from 14 different countries and 7 partners from Brazil, Canada, India and the US, with a total budget of more than 13 million EUR. The main objective of NanoValid is to develop a set of reliable reference methods and materials for the fabrication, physicochemical characterization, hazard identification and exposure assessment of engineered nanomaterials, including methods for dispersion control and labeling of engineered nanomaterials. Based on newly established reference methods, current approaches and strategies for risk and life cycle assessment will be improved, modified and further developed, and their feasibility assessed by means of practical case studies.

This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration under grant agreement No 263147.

www.nanovalid.eu

baua: Bundesanstalt für Arbeitsschutz und Arbeitsmedizin

NanoValid



Nano to go!

This flyer gives you a short overview on the Guidance Document "Nano to go!" that has been prepared within the EU FP7 NanoValid project for the safe handling of nanomaterials. This document is structured into different building blocks that are briefly described. Their complete description can be found on the enclosed USB stick and on the NanoValid website, which will be regularly updated. Please visit the website also to obtain further documents and additional information.

www.nanovalid.eu

BUILDING BLOCK I:
Brief explanation of safety management and nanomaterials

For whom is this introduction suitable?
All those interested in occupational health and safety

What does it provide?
An introduction into the requirements and important aspects to be considered by **safety management systems** for the handling of both "traditional" chemicals and nanomaterials

Where can it be found?
This document can be found on the enclosed USB stick in the folder "general" and at the specified webpages of "Nano to go!"

BUILDING BLOCK II:
Brochure on "Safe handling of nanomaterials and other advanced materials at workplaces"

For whom is this brochure suitable?
Researchers and **safety experts** at universities and in SMEs, for **regulators** in occupational health and safety, for risk assessors and **consulting companies**

What does it provide?
An **approach to developing safety strategies** for handling nanomaterials in solid matrices, in liquids for spray applications, in soluble or insoluble powder form, and in fibre form. Additional tips and advice are given for training and instruction courses, considering occupational medical and toxicological aspects, and for the storage and disposal of these materials. To ensure an appropriate safety strategy, the brochure allows for an in-depth **assessment** to adequately apply final decision criteria. The brochure **can also be used to double-check** safety measures that have already been chosen from the other building blocks of the manual.

Where can it be found?
In printed form within the manual, on the enclosed USB stick in the folder "brochure" and at the specified webpages of "Nano to go!"

BUILDING BLOCK III:
Presentations on safe handling of nanomaterials

For whom are these presentations suitable?
University lecturers or people working in supervisory roles within **companies**, to aid in the preparation of instructional courses

What does it provide?
The presentations are generated in a **train-the-trainer** format. The slides are provided both with and without explanatory notes. The slides can be used as building blocks. Their content covers the world of nanomaterials, nanotoxicology, information gathering, risk assessment and efficiency control, as well as the origin of control strategies.

Where can it be found?
The presentations can be found on the enclosed USB stick in the folder "presentations" and at the specified webpages of "Nano to go!"

BUILDING BLOCK IV:
Report on production of nanoscaled silicon particles at a pilot plant

For whom is it suitable?
Safety experts in companies

What does it provide?
The report gives an example of an **activity-based risk assessment** and **exposure measurement** for particle production at a pilot plant. The risk assessment describes the general production process and specific activities. The purpose is to gather information about current controls for risk mitigation at relevant working places and for specific activities. The measurement complements the risk assessment and focuses on particle number concentrations, particle size distribution and particle samples for morphological characterization.

Where can it be found?
The report can be found on the enclosed USB stick in the folder "field studies" and at the specified webpages of "Nano to go!"

BUILDING BLOCK V:
Report on processing of nanoscaled fibres (CNT) at a pilot plant

For whom is it suitable?
Safety experts in companies and **regulators** on occupational health and safety

What does it provide?
The report **provides** an example of a **dialogue guide** and an **exposure measurement** at a fibre processing pilot plant. The dialogue guide is a **short check list** with questions that can be used to gain an overview of relevant workplace activities, nanoscaled substances and installed protection measures. The measurement report complements the dialogue guide and identifies particle release during decanting and handling for loading an extruder.

Where can it be found?
The report can be found on the enclosed USB stick in the folder "field studies" and at the specified webpages of "Nano to go!"

BUILDING BLOCK VI:
Report on production of nanoscaled particles in a laboratory

For whom is it suitable?
Safety experts in universities and small enterprises

What does it provide?
The report gives an example of a **dialogue guide, notes from an inspection** and **exposure measurement** in a particle production laboratory. The dialogue guide, with a focus on nano-specific questions, is complemented with a note containing 10 general aspects of occupational health and safety mainly focusing on organisational aspects.

Where can it be found?
The report can be found on the enclosed USB stick in the folder "field studies" and at the specified webpages of "Nano to go!"