



NANEX WP2 – Exposure Scenarios Summary

Please note this ES was not developed as part of a full risk assessment process, and may not necessarily describe exposure conditions for which there are no risks to human health and the environment

Standard Exposure Scenario Format 1: For Uses Of Substances By Workers

Title:	Production of printing inks	Date:	06/07/2010
SubstanceType	Ti O2	Entered By:	TNO

Internal reference ID: ES 2

List of all use descriptors related to the life cycle stage and all the uses under it; include market sector (by PC) if relevant:

SU 3; PC 18; PROC 9 or 26;

List of names of contributing exposure scenarios and corresponding PROCs/PCs

CES 1: Emptying bags in filling station (PROC 9 or 26)

CES 1: Name of contributing exposure

Emptying bags in filling station (PROC 9 or 26)

Further specification

Product characteristics

Powder, no dustiness result available
100% product

Amounts used

40 kg (4 bags of 10 kg) per task

Frequency and duration of use/exposure

5 to 10 minutes per task. Frequency unknown

Human factors not influenced by risk management

not reported

Other given operational conditions affecting workers exposure

This task was carried out in an area called the penthouse which was separated by stairs from other production areas. Large room (> 100m³) with an open connection to the rest of the facility.

Technical conditions and measures at process level (source) to prevent release

LEV present at the filling station. Design of the filling station: only the front of the fillingstation is open.

Technical conditions and measures to control dispersion from source towards the worker

not reported

Organisational measures to prevent /limit releases, dispersion and exposure

not reported

Conditions and measures related to personal protection, hygiene and health evaluation

Disposable RPE, gloves and coveralls were worn

Additional good practice advice (for environment) beyond the REACH CSA

not reported

Exposure Estimation

CPC: total particle concentration during activity was 16285#/cm³ with corresponding non-activity period of 16509#/cm³. Second measurement result during activity was 10242#/cm³ with corresponding non-activity period of 9756#/cm³ during non-activity (AM)

References

Ref Title: D2.2 Report of results and implications of main study to measure nanoparticle concentrations in workplaces - Part 1: Main summary
Author: NANOSH
Journal:
Ref Year: 2010

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