

Bibliography for the Workers' Exposure Survey on cancer risk factors in Europe

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1 Introduction

This document contains the list of references that were used to support the [Workers' Exposure Survey \(WES\)](#) estimations of exposure to cancer risk factors (completed in November 2022). It includes peer reviewed publications and grey literature, for example technical reports from the European Commission (EC) or from national and international institutes. Sources available online only (published in websites) are also referenced, and were last accessed at the time of finalization of this document (March 2023).

The WES survey uses a custom-made version of the software [OccIDEAS](#), an online application which provides automatic assessments of exposure to predefined occupational chemicals and other risk factors based on a set of questionnaires answered by workers. WES provides estimates of workers' exposure to 24 cancer risk factors including industrial chemicals, inorganic dusts, organic dusts, metals, oils, products of combustion, solvents, and radiation (**Table 1**).

The bibliography for WES is presented in this document following the structure of the survey. In WES, each occupation is called a *job module*, and WES contains 50 job modules in total with pertinent questions. The bibliography used to support exposure assessment in each job module can be found in section 2.1 "*Job Modules*". Additionally, daily tasks that are carried out by workers and that may occur in several occupations are covered by *task modules*. An example of a task module in WES is "cleaning hands", an activity conducted by workers in many occupations. WES proposes 41 different task modules, and the references to support exposure assessment for each of them are listed in section 2.2 "*Task Modules*".

Table 2 presents the correspondence between job modules and task modules in WES. It shows which task modules have additionally been considered and linked to each job module. A few job modules consist of task modules only, such as for example the job module for Drivers and Transport Workers (DRIV) or the one for Fitter, Machinist and Maintenance Mechanic (FAMM). In these cases, to consult the bibliography for these job modules, the reader is directed to the bibliography of the relevant task modules, according to the information provided in Table 2.

Finally, references not directly linked to the assessment of exposure in WES but that provide relevant background information to the WES survey are listed at the end of the document in 2.3 as "*Other References*"

Table 1 cancer risk factors in WES

industrial chemicals
1,3 butadiene
acrylamide
diethyl/dimethyl sulphate
Epichlorohydrin
ethylene oxide
formaldehyde
ortho-toluidine
inorganic dusts
asbestos
Respirable crystalline silica
organic dusts
leather dust
wood dust
metals
arsenic
cadmium
chromium VI
cobalt
Lead (inorganic) and compounds
nickel
oils
mineral oils (as mists)
products of combustion
Diesel engine exhaust emissions
solvents
benzene
trichloroethylene
radiation
ionising radiation
artificial UV radiation (including ocular UV)
solar UV radiation (including ocular UV)

Table 2. Correspondence between job modules (rows) and task modules (columns) in WES*

	aART	aASR	aAUV	aBBU	aBED	aCLH	aCON	aCTO	aCTS	aCTW	aDEG	aDVM	aEMB	aENU	aFAB	aFFL	aFPE	aFTC	aFUM	aFUR	aGAL	aGEX	aGLU	aGUN	aMAC	aMAH	aMXR	aPAI	aPES	aPTL	aSAN	aSER	aSHP	aSLD	aSTE	aSTP	aUVR	aVEX	aWEL	aWOP	aXRY			
AIRT			x			x		x			x	x				x		x	x										x			x				x	x	x	x			x		
ANIM					x	x						x					x												x							x	x							
ARTF	x					x		x	x	x	x						x						x					x			x				x	x			x					
CERA	x					x			x		x									x			x														x							
CHEM			x			x		x			x	x											x				x								x			x				x		
CLNR						x						x			x		x	x															x				x							
CONS		x				x		x	x	x	x	x					x		x			x	x								x	x	x	x		x	x	x	x	x	x			
DRIV						x	x	x			x	x						x									x										x							
DRYC						x						x			x												x										x							
FAMM		x				x		x		x	x	x		x				x		x					x				x				x	x			x	x	x	x			x	
FARM		x		x	x	x		x		x	x	x						x	x			x	x					x	x		x			x		x	x	x	x	x				
FIRE		x				x		x		x		x																																
FLOR						x						x											x						x									x	x					
FOOD			x			x						x										x																x	x					
FORE				x		x	x	x		x		x						x				x							x								x	x			x			
FOUN						x		x		x	x																							x										
FUNR						x				x		x	x		x														x								x	x						
GARD		x		x		x		x		x	x	x						x	x			x	x					x	x		x	x		x		x	x	x	x					
GENE						x			x	x	x	x											x				x					x				x	x	x						
HAIR			x			x									x												x		x															
HLTH						x						x	x								x							x		x	x					x								
IMAR			x			x		x	x	x	x	x										x	x		x			x				x	x		x		x	x	x	x	x	x		
JANI		x		x		x				x	x	x			x			x				x	x					x	x		x	x		x		x	x	x	x					
LABC			x			x				x		x									x							x		x	x						x	x						
LEAT						x																																						
LINE						x		x				x		x								x											x					x	x	x			x	
MECH						x		x			x	x						x				x	x						x			x				x	x	x	x					
MFAC						x		x			x											x																						x
MINE						x						x						x				x												x				x	x					
MUSI						x						x										x																x	x					
OFFW												x																										x	x					
OPET		x				x					x	x						x	x															x	x			x						
PESA						x					x	x						x																				x						
POLI						x						x								x					x													x						
PRIN			x			x					x	x																	x															
PRMM						x						x										x																						x
RAIL						x		x			x	x						x	x			x	x			x		x	x		x						x			x	x			
RDSO						x						x										x																x						
RETA						x	x					x																										x						
ROAD		x				x			x			x						x											x									x						
RUBB						x					x	x											x				x																	x
SEWG						x						x																											x					
SHIP						x	x	x		x	x	x						x	x	x			x	x			x		x					x		x				x				x
SHOE						x						x											x																					
STOR						x	x					x																										x						
TEAC	x					x		x	x	x	x	x						x					x	x					x			x				x	x			x				
TEXT						x						x			x								x																					
UPHO						x		x		x		x										x	x						x						x					x				
WAMA						x		x		x		x		x				x				x							x					x			x			x				
WELD						x		x			x	x		x								x																x			x			

*Short descriptions for the acronyms used in job and task modules are provided in the Table of Contents above.

2 List of references

2.1 Job Modules

AIRT_Air Transport Workers

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ANIM_Animal Worker

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ARTF_Artist/Film Processing

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CERA_Ceramics Glass Production

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CHEM_Chemical Pharmaceutical Manufacturing

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FAMM_Fitter, Machinist or Maintenance Mechanic

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FLOR_Florist

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FORE_Forestry Timbermill

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FOUN_Foundry

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FUNR_Funeral Workers

The bibliography for this Job Module is contained in Task Modules.

GARD_Gardener Groundskeeper

The bibliography for this Job Module is contained in Task Modules.

GENE_Generic

The bibliography for this Job Module is contained in Task Modules.

HAIR_Hairdresser/Beauty Therapist

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HLTH_Health Workers

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JANI_Caretaker/Janitor

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LABC_Lab worker Chemist

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LEAT_Leather Tanning

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LINE_Power Station/Power Line Worker

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MECH_Mechanic/Panel Beater

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MINE_Miners/Quarrymen

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MUSI_Musician/Entertainer

The bibliography for this Job Module is contained in Task Modules.

OFFW_Office Worker

The bibliography for this Job Module is contained in Task Modules.

OPET_Oil/Petroleum Industry

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PESA_Petrol Station Attendant

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POLI_Police

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PRIN_Printing

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RAIL_Railway

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RDSD_Roadside Worker

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RETA_Retail Workers

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SEWG_Sewage and Water Worker

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SHIP_Shipping/Fishing

The bibliography for this Job Module is contained in Task Modules.

SHOE_Shoes and leather goods

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STOR_Store person

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TEXT_Textiles

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UPHO_Upholstery

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WAMA_Waste Management

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aMAH_Material Handling

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aPES_Pesticides

NOTE: With pesticides we mean herbicides, insecticides or fumigants containing petrol, ethylene oxide and formaldehyde (selected cancer risk factors for WES).

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aSAN_Sanding

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aVEX_Vehicle Exhausts

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