Bibliography for the Workers’ Exposure Survey on cancer risk factors in Europe
# Table of Contents

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
</table>
| 1 | Introduction                                                                                     | 1
| 2 | List of references                                                                               | 2
| 2.1 | Job Modules                                                                                     | 2
|   | AIRT_Air Transport Workers                                                                       | 2
|   | ANIM_Animal Worker                                                                               | 2
|   | ARTF_Artist/Film Processing                                                                      | 2
|   | CERA_Ceramics Glass Production                                                                  | 3
|   | CHEM_Chemical Pharmaceutical Manufacturing                                                        | 4
|   | CLNR_Cleaner                                                                                     | 5
|   | CONS_Construction Trades                                                                          | 6
|   | DRIV_Driver                                                                                      | 6
|   | DRYC_Dry Cleaner                                                                                 | 6
|   | FAMM_Fitter, Machinist or Maintenance Mechanic                                                    | 6
|   | FARM_Farmer                                                                                      | 6
|   | FIRE_Firefighter                                                                                 | 7
|   | FLOR_Florist                                                                                    | 8
|   | FOOD_Food Workers                                                                                | 8
|   | FORE_Forestry Timbermill                                                                         | 9
|   | FOUN_Foundry                                                                                     | 9
|   | FUNR_Funeral Workers                                                                             | 10
|   | GARD_Gardener Groundskeeper                                                                       | 10
|   | GENE_Generic                                                                                    | 11
|   | HAIR_Hairdresser/Beauty Therapist                                                                | 11
|   | HLTH_Health Workers                                                                              | 11
|   | IMAR_Industrial Manufacturing, Assembly and Repair                                               | 11
|   | JANI_Caretaker/Janitor                                                                           | 12
|   | LABC_Lab worker Chemist                                                                          | 12
|   | LEAT_Leather Tanning                                                                             | 13
|   | LINE_Power Station/Power Line Worker                                                             | 13
|   | MECH_Mechanic/Panel Beater                                                                       | 14
|   | MFAC_Metal Finishing & Coating                                                                   | 14
|   | MINE_Miners/Quarrymen                                                                            | 15
|   | MUSI_Musician/Entertainer                                                                        | 16
|   | OFFW_Office Worker                                                                               | 16
|   | OPET_Oil/Petroleum Industry                                                                      | 16
|   | PESA_Petrol Station Attendant                                                                     | 17
|   | POLI_Police                                                                                      | 17
|   | PRIN_Printing                                                                                    | 17
|   | PRMM_Metal Refining/Smelting                                                                     | 18
|   | RAIL_Railway                                                                                    | 18
|   | RDSD_Roadside Worker                                                                             | 19
|   | RETA_Retail Workers                                                                              | 19
|   | ROAD_Road Construction                                                                            | 19
|   | RUBB_Rubber or Plastic Industry                                                                  | 20
|   | SEWG_Sewage and Water Worker                                                                     | 21
|   | SHIP_Shipping/Fishing                                                                            | 21
|   | SHOE_Shoes and leather goods                                                                      | 21
|   | STOR_Store person                                                                                | 22

Bibliography for the Workers' Exposure Survey on cancer risk factors in Europe
2.2 Task Modules ................................................................. 24
aART_Art ceramic glazes ...................................................... 24
aASR_Asbestos Removal ...................................................... 24
aAUV_Artificial UV .......................................................... 25
aBBU_Back Burning .......................................................... 25
aBED_Artificial UV ............................................................ 25
aCLH_Cleaning Hands ......................................................... 25
aCON_Container handling ................................................... 26
aCTO_Cutting Oils .............................................................. 26
aCTS_Cutting Stone ........................................................... 26
aCTW_Cutting Wood .......................................................... 28
aDEG_Degreasing .............................................................. 28
aDVM_Driving/Maintenance ................................................ 28
aEMB_Embalming ............................................................... 30
aENU_Nuclear energy and waste ........................................... 30
aFAB_Fabric Cleaning ......................................................... 30
aFIL_Frequent Flyer ............................................................ 31
aFPE_Fuel-powered equipment ............................................. 31
aFTC_Fuel tank cleaning ..................................................... 31
aFUM_Fumigation .............................................................. 31
aFUR_Furnace cleaning, installation and maintenance .............. 32
aGAL_Anatomy laboratory ................................................... 32
aGEX_Generator Exhaust .................................................... 32
aGLU_Glues ........................................................................ 32
aGUN_Guns ......................................................................... 32
aMAC_Machining Parts ......................................................... 33
aMAH_Material Handling .................................................... 33
aMXR_Medical radiation ...................................................... 34
aPAI_Painting .................................................................... 34
aPES_Pesticides ................................................................. 35
aPTL_Pathology laboratory .................................................. 36
aSAN_Sanding ................................................................. 36
aSER_Service tunnels .......................................................... 36
aSHP_Shipping ................................................................. 37
aSLD_Soldering ................................................................. 37
aSTE_Sterilising ............................................................... 37
aSTP_Stripping Paint ......................................................... 38
aUVR_Solar UV ............................................................... 38
aVEX_Vehicle Exhausts ..................................................... 39
aWEL_Welding ............................................................... 39
aWOP_Wood Preservatives ................................................ 39
aXRY_X-ray use ............................................................... 40

2.3 Other References .......................................................... 40
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

<table>
<thead>
<tr>
<th>industrial chemicals</th>
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<tbody>
<tr>
<td>1,3 butadiene</td>
</tr>
<tr>
<td>acrylamide</td>
</tr>
<tr>
<td>diethyl/dimethyl sulphate</td>
</tr>
<tr>
<td>Epichlorohydrin</td>
</tr>
<tr>
<td>ethylene oxide</td>
</tr>
<tr>
<td>formaldehyde</td>
</tr>
<tr>
<td>ortho-toluidine</td>
</tr>
<tr>
<td>inorganic dusts</td>
</tr>
<tr>
<td>asbestos</td>
</tr>
<tr>
<td>Respirable crystalline silica</td>
</tr>
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</tr>
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</tr>
<tr>
<td>cadmium</td>
</tr>
<tr>
<td>chromium VI</td>
</tr>
<tr>
<td>cobalt</td>
</tr>
<tr>
<td>Lead (inorganic) and compounds</td>
</tr>
<tr>
<td>nickel</td>
</tr>
<tr>
<td>oils</td>
</tr>
<tr>
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<td>Diesel engine exhaust emissions</td>
</tr>
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<td>solvents</td>
</tr>
<tr>
<td>benzene</td>
</tr>
<tr>
<td>trichloroethylene</td>
</tr>
<tr>
<td>radiation</td>
</tr>
<tr>
<td>ionising radiation</td>
</tr>
<tr>
<td>artificial UV radiation (including ocular UV)</td>
</tr>
<tr>
<td>solar UV radiation (including ocular UV)</td>
</tr>
</tbody>
</table>
## Table 2. Correspondence between job modules (rows) and task modules (columns) in WES*

| Job Module | AIRT | ANIM | ARTF | CERA | CHEM | CLNR | CONS | DRIV | DRYX | FARM | FARM | FIRE | FLOR | FOOD | FORE | FOUN | FUNR | GARD | GENE | HAIR | HLTH | IMAR | JANI | LABC | LEAT | LINE | MECH | MFAC | MINE | MUSI | OFFW | OPET | PESA | POOL | PRIN | PRMM | PUSA | ROAD | RAIL | RDSO | RETA | RUBB | SEWG | SHIP | SHOE | STOR | TEAC | TEXT | UPHU | WAMA | WELD |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WAMA      | x    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| UPHO      |      | x    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| SHIP      |      |      |      | x    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| WELD      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
2 List of references

2.1 Job Modules

**AIRT_Air Transport Workers**

**ANIM_Animal Worker**

**ARTF_Artist/Film Processing**
College of Saint Benedict, Saint John’s University, Environmental Health and Safety, Photography Chemicals. Available at: https://www.csbsju.edu/environmental-health-safety/programs/studio-and-shop-safety/arts-theater/photography-chemicals


**CERA_Ceramics Glass Production**


**CHEM_Chemical Pharmaceutical Manufacturing**


European Chemicals Agency (ECHA). Proposal by the European Chemical Agency (ECHA) in support of occupational exposure limit values for nickel and its compounds in the workplace, October 2017. Available at: https://echa.europa.eu/documents/10162/ab027c44-b1c1-8513-378a-ba45c49ec2c


European Chemicals Agency (ECHA). Dimethyl sulphate. Brief profile. Available at: https://echa.europa.eu/de/brief-profile/-/briefprofile/100.000.963


**CLNR_Cleaner**

European Chemicals Agency (ECHA). ‘Substance Infocard: Naphta (petroleum), hydrotreated heavy’, 2021, Available at: https://echa.europa.eu/substance-information/-/substanceinfo/100.059.210


**CONS_Construction Trades**


**DRIV_Driver**

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

**DRYC_Dry Cleaner**


**FAMM_Fitter, Machinist or Maintenance Mechanic**

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

**FARM_Farmer**


Jackson, S. ‘Respirable crystalline silica exposure in Western Australian horse riding instructors’, Australian Institute of Occupational Hygienists Inc, 33rd Annual Conference, 2015, Available at: https://thebeatentrack.org/study/results.html


**FIRE_Firefighter**


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

FOOD_Food Workers


International Diatomite Producers Associations (IDPA). 'A guide to safe handling of diatomaceous earth products (European Version)', 2017, Available at: https://ehs.psu.edu/sites/ehs/files/idpa_guide_for_safe_handling.pdf


**FORE_Forestry Timbermill**


Neri, F., Foderi, C., Laschi, A., Fabiano, F., Cambi, M., Sciarra, G., Aprea, M.C., Cenni, A., Marchi, E. ‘Determining exhaust fumes exposure in chainsaw operations’, Environmental Pollution, 2016, 1162-1169


**FOUN_Foundry**


European Chemicals Agency (ECHA). Proposal by the European Chemical Agency (ECHA) in support of occupational exposure limit values for nickel and its compounds in the workplace, October 2017. Available at: https://echa.europa.eu/documents/10162/ab027c44-b1c1-8513-378a-ba45c49ec2c0


**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**


**HLTH_Health Workers**


**IMAR_Industrial Manufacturing, Assembly and Repair**


World Health Organization (WHO). ‘Recycling used lead-acid batteries: health considerations’, 2017, Available at: https://apps.who.int/iris/bitstream/handle/10665/259447/9789241512855-eng.pdf?sequence=1&isAllowed=y


**JANI_Caretaker/Janitor**

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

**LABC_Lab worker Chemist**

Helmenstine, A.M. ‘How to clean lab glassware’, ThoughtCo, 2020, Available at: https://www.thoughtco.com/how-to-clean-laboratory-glassware-606051


Merck. ‘Cleaning Laboratory Glassware’, Available at: https://www.sigmaaldrich.com/technical-documents/articles/labware/cleaning-glassware.html

**LEAT_Leather Tanning**


Hedberg, Y.S., Lidén, C. ‘Chromium(III) and chromium(VI) release from leather during 8 months of simulated use’, *Contact Dermatitis*, 2016, 75(2):82-88.


**LINE_Power Station/Power Line Worker**


**MECH_Mechanic/Panel Beater**

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

**MFAC_Metal Finishing & Coating**


Thomas – A Xometry Company. ‘Plating – A How To Guide’, Available at: https://www.thomasnet.com/articles/custom-manufacturing-fabricating/plating-how-to/


**MINE_Miners/Quarrymen**

Arias López, M.C., Bértoa Veiga, G., ‘Caracterización de la exposición a polvo de sílice y a ruido en los puestos de trabajo del sector de la pizarra de la provincia de Lugo’, Available at: http://isspa.xunta.gal/export/sites/default/recursos/descargas/documentacion/publicacions/Artigo_polvos_ruido_canteras_pizarra_Lugo.pdf


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Sapigni, M., Meggiolaro, V. ‘Tunnel boring asbestos-bearing rocks is a problem of ophiolite but it is not limited to ophiolite’, Conference paper: Geoitalia 2013-IX Forum Italiano di Scienze della Terra, Pisa, 2013 Available at: https://www.researchgate.net/publication/261727139_Tunnel_boring_asbestos-bearing_rocks_is_a_problem_of_ophiolite_but_it_is_not_limited_to_ophiolite


**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**


**PESA_Petrol Station Attendant**


**POLI_Police**


**PRIN_Printing**


NuGenTec. ‘Paint strippers: NuSolv 5065A’. Available at: https://www.nugentec.com/nusolv-5065a/ns-5065a


PRMM_Metal Refining/Smelting


European Chemical Agency (ECHA). Proposal by the European Chemical Agency (ECHA) in support of occupational exposure limit values for nickel and its compounds in the workplace, October 2017. Available at: https://echa.europa.eu/documents/10162/ab027c44-b1c1-8513-378a-ba45c49ec2c


**RAIL_Railway**


**RDSD_Roadside Worker**


**RUBB_Rubber or Plastic Industry**

BRP Manufacturing. ‘Epichlorihydrin Rubber’. Available at: https://brpmfg.com/epichlorihydrin-rubber/


Gallagher. ‘Types of Polyurethane’. Available at: https://gallagheorc.com/types-of-polyurethane/


**SEWG_Sewage and Water Worker**

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

**SHIP_Shipping/Fishing**

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

**SHOE_Shoes and leather goods**


**STOR_Store person**

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

**TEAC_Teaching**

Chemistry Library. ‘Common Laboratory Techniques: Crystallization’, 2020. Available at: https://chem.libretexts.org/Bookshelves/Ancillary_Materials/Laboratory_Experiments/Wet_Lab_Experiments/Organic_Chemistry_Labs/Misc/COMMON LABORATORY TECHNIQUES


**TEXT_Textiles**

Ansès, Formaldéhyde (2019). Available at: https://www.substitution-cmr.fr/index.php?id=112&tx_kleecmr_pi3%5Buid%5D=23&tx_kleecmr_pi3%5Bonglet%5D=1&tx_kleecmr_pi3%5Bpointer%5D=2&cHash=178f8c8c26


Encyclopaedia Britannica. ‘Mercerization’. Available at: https://www.britannica.com/technology/mercerization

European Chemicals Agency (ECHA). ‘Adopted opinions and previous consultations on applications for authorisation: on trichloroethylene use’. Available at: https://echa.europa.eu/applications-for-authorisation-previous-consultations


US Environmental Protection Agency (EPA). ‘Synthetic Fibers’. Available at: https://www3.epa.gov/ttnchie1/old/ap42/ch06/s09/final/c06s09_1995.pdf


**UPHO_Upholstery**


**WAMA_Waste Management**


**WELD_Welder**


### 2.2 Task Modules

**aART_Art ceramic glazes**


**aASR_Asbestos Removal**


Instituto Nacional de Seguridad e Higiene en el Trabajo (INSST). ‘Guía técnica para la para la evaluación y prevención de los riesgos relacionados con la exposición al amianto’, REAL DECRETO 396/2006, de 31 de marzo. BOE nº 86, de 11 de abril. Available at: https://www.insst.es/documents/94886/203536/Gu%C3%A9+prevenci%C3%B3n+de+los+riesgos+relacionados+con+l+a+exposici%C3%B3n+al+amiango/0aecc80-d55c-4eee-bebc-17db4e5768c


**aAUV_Artificial UV**


**aBBU_Back Burning**


**aBED_Animal Bedding**


**aCLH_Cleaning Hands**


aCON_Container handling


aCTO_Cutting Oils

Instituto Nacional de Seguridad e Higiene en el Trabajo (INSST). ‘Situaciones de exposición a agentes químicos – Basequim 031’. Available at: https://www.insst.es/documents/94886/791398/BASEQUIM_031.pdf


aCTS_Cutting Stone


**ACTW_Cutting Wood**


**aDEG_Degreasing**


**aDVM_Driving/Maintenance**


Lim, S., Barrat, B., Holliday, L., Griffiths, C., Mudway, I. ‘The Driver Diesel Exposure Mitigation Study (DEMiSt)’. Available at: https://losh.com/diesel-exhaust-exposure


Occupational Cancer Research Centre (OCRC). ‘Diesel Engine Exhaust’. Available at: https://www.occupationalcancer.ca/burden/current-burden/diesel-engine-exhaust/


Potchter, O., Oz, M., Brenner, S., Yaakov, Y., Schnell, I. ‘Exposure of motorcycle, car and bus commuters to carbon monoxide on a main road in the Tel Aviv metropolitan area, Israel’, *Environmental Monitoring and Assessment*, 2014, 186(12):8413-8424.


**aEMB_Embalming**


**aENU_Nuclear energy and waste**


**aFAB_Fabric Cleaning**


aFFL_Frequent Flyer


afPE_Fuel-powered equipment

See references for aDVM.


aFCTC_Fuel tank cleaning


aFUM_Fumigation

aFUR_Furnace cleaning, installation and maintenance


aGAL_Anatomy laboratory


aGEX_Generator Exhaust

See references for aDVM.


aGLU_Glues

Fibreglast. The ultimate fiberglass repair guide. Available at: https://www.fibreglast.com/product/fiberglass-repair-composite-repair/Learning_Center

Instituto Nacional de Seguridad e Higiene en el Trabajo (INSST). NTP 266: Adhesivos sintéticos: riesgo higiénico de resinas y otros componentes. Available at: https://www.insst.es/documents/94886/327166/ntp_266.pdf/08da791e-42f5-4d2c-874f-78f42e3a8516

aGUN_Guns


Guns Cleaner website. Available at: https://gunscleaner.com/

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Lucas Oil Products Inc. Safety Data Sheet: Lucas Extreme Duty Gun Cleaner. Available at: https://lucasoil.com/pdf/SDS_Extreme-Duty-Contact-Cleaner.pdf

Real Gun Reviews. What’s Really in Gun Cleaners and Lube? Available at: https://www.realgunreviews.com/whats-really-in-gun-cleaners-lube/

Safariland. Cleaning accessories. Available at: https://safariland.com/collections/cleaning-accessories


**aMAC_Machining Parts**


Instituto Nacional de Seguridad y Salud en el Trabajo (INSST). Ocupación, actividad económica y mortalidad por cáncer en España, 2019. Available at: https://www.insst.es/documents/94886/599872/Mortalidad+cancer.pdf/2cdf1b22-82bb-4b2f-87ac-ea846d50080d


**aMAH_Material Handling**

See references for aDVM.


**aMXR_Medical radiation**


**aPAI_Painting**


Environment Canada and Health Canada. ‘Screening Assessment for the Challenge Quartz and Cristobalite’, 2013. Available at: https://www.ec.gc.ca/ese-ees/1EB4F4EF-88EE-4679-9A6C-008F0C8C191C/FSAR_B12%20-%2014464-46-1%20%26%2014808-60-7%20%28QC%29_EN.pdf

European Chemicals Agency (ECHA) Substance Infocard: Lead chromate. Available at: https://echa.europa.eu/fr/substance-information/-/substanceinfo/100.028.951

Health and Safety Executive (HSE), Engineering Sheet No 32 Available at: https://www.hse.gov.uk/pubns/eis32.pdf


**aPES_Pesticides**

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


European Commission. EU Pesticides Database. Available at: https://ec.europa.eu/food/plant/pesticides/eu-pesticides-database/public/?event=homepage&language=EN


Material Safety Data Sheet: Naptha. Available at: [https://www.collectioncare.org/MSDS/naphthamsds.pdf](https://www.collectioncare.org/MSDS/naphthamsds.pdf)


**aPTL_Pathology laboratory**


Institut de recherche Robert-Sauvé en santé et en sécurité du travail (IRSST). ‘Prevention fact sheet: Exposure to formaldehyde in the workplace: Pathology laboratory’. Available at: [https://www.irsst.qc.ca/media/documents/PubIRSST/RG3-473.pdf](https://www.irsst.qc.ca/media/documents/PubIRSST/RG3-473.pdf)


**aSAN_Sanding**


Instituto Nacional de Seguridad e Higiene en el Trabajo (INSST). ‘Situaciones de exposición a agentes químicos: BASEQUIM’. Available at: [https://www.insst.es/documents/94886/589813/017.+Rectificado+superficial+de+piezas+de+madera+mediante+lijado+en+carpinter%27%27as+y+ebanister%27%27as+de+polvo+de+madera.pdf/0c025b34-baf5-48d0-9d82-2222ace962ec](https://www.insst.es/documents/94886/589813/017.+Rectificado+superficial+de+piezas+de+madera+mediante+lijado+en+carpinter%27%27as+y+ebanister%27%27as+de+polvo+de+madera.pdf/0c025b34-baf5-48d0-9d82-2222ace962ec)


**aSER_Service tunnels**

See references for aASR.

**aSHP_Shipping**


Williams, P.R., Robinson, K., Paustenbach, D.J. ‘Benzene exposures associated with tasks performed on marine vessels (circa 1975 to 2000)’, *Journal of Occupational and Environmental Hygiene*, 2005, 2(11):586-599.

**aSLD_Soldering**


**aSTE_Sterilising**


**aSTP_Stripping Paint**


**aUVR_Solar UV**


World Health Organization (WHO). ‘The effect of occupational exposure to solar ultraviolet radiation on malignant skin melanoma and nonmelanoma skin cancer: a systematic review and meta-analysis from

**aVEX_Vehicle Exhausts**

See references for aDVM.

**aWEL_Welding**


**aWOP_Wood Preservatives**


**2.3 Other References**


Institut national de recherche et de sécurité (INRS), Principes généraux de ventilation, 2022. Guide pratique de ventilation. Available at: [https://www.inrs.fr/media.html?refINRS=ED%20695](https://www.inrs.fr/media.html?refINRS=ED%20695)