

## Appendix 5. Updated list of relevant information sources

**Table A5.1:** Data sources related to dangerous substances (an update of the initial list of sources provided by EU-OSHA)

Countries covered		Name of database	Information is provided on		Number of workers exposed is provided					Information on duration and frequency of exposure is provided	Type of information on job exposure (notifications, measurements, estimates)	Sources
			work process, task, technology	sectors and occupation	per substance / product	per operation	per task	per sector	per country			
1	DE	IFA-Expositionsdatenbank MEGA "Messdaten zur Exposition gegenüber Gefahrstoffen am Arbeitsplatz"	+	+	no	no	no	no	No	partly	Measurements. Special measuring reports for many substances available	<a href="http://www.dguv.de/ifa/gestis/expositionsdatenbank-mega/expositionsdaten-aus-mega-in-publikationen/index-2.jsp">http://www.dguv.de/ifa/gestis/expositionsdatenbank-mega/expositionsdaten-aus-mega-in-publikationen/index-2.jsp</a> <a href="https://academic.oup.com/annweh/article/56/4/426/167930/Use-of-the-MEGA-Exposure-Database-for-the">https://academic.oup.com/annweh/article/56/4/426/167930/Use-of-the-MEGA-Exposure-Database-for-the</a>
2	EU (25 countries)	WOODEX database (International Information System on Occupational Exposure to Wood Dust)	No	+	+	no	no	+	+	no	Estimates, exposure measurements (a measurement database forms the foundation for the estimates).	<a href="https://www.ncbi.nlm.nih.gov/pubmed/16571638">https://www.ncbi.nlm.nih.gov/pubmed/16571638</a> <a href="http://www.insht.es/Observatorio/Contenidos/InformesPropios/Desarrollados/Ficheros/Informeingl%C3%A9s.pdf">http://www.insht.es/Observatorio/Contenidos/InformesPropios/Desarrollados/Ficheros/Informeingl%C3%A9s.pdf</a> <a href="http://files.rassegna.it/userdata/sites/rassegnait/attach/2015/04/ricerca-polverilegno_453675.pdf">http://files.rassegna.it/userdata/sites/rassegnait/attach/2015/04/ricerca-polverilegno_453675.pdf</a>
3	EU (as of 1997)	CAREX database (International Information System on Occupational Exposure to Carcinogens)	No	+	+	no	no	+	+ (19 EU countries)		Estimates	<a href="http://oem.bmi.com/content/57/1/10">http://oem.bmi.com/content/57/1/10</a> <a href="http://www.rivm.nl/bibliotheek/rapporten/2014-0083.pdf">http://www.rivm.nl/bibliotheek/rapporten/2014-0083.pdf</a> <a href="http://hw2012.healthy-workplaces.eu/data/provider/osh_dbcontent_2006-05-22.5941227338">http://hw2012.healthy-workplaces.eu/data/provider/osh_dbcontent_2006-05-22.5941227338</a> ttl.fi links not working at present <a href="http://oem.bmi.com/content/73/Suppl_1/A11.2">http://oem.bmi.com/content/73/Suppl_1/A11.2</a> <b>NOTE (as of 1993)</b> <a href="https://www.researchgate.net/profile/Johnni_Hansen2/publication/12605045_Occupational_Exposure_to_Carcinogens_in_the_European_Union/links/09e4150b69f8f99322000000.pdf">https://www.researchgate.net/profile/Johnni_Hansen2/publication/12605045_Occupational_Exposure_to_Carcinogens_in_the_European_Union/links/09e4150b69f8f99322000000.pdf</a>

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			work process, task, technology	sectors and occupation	per substance / product	per operation	per task	per sector	per country			
4	FI	ASA (ASA database - Finnish Register of Occupational Exposure to Carcinogens)	no (partly, incomplete data, not computerised)	+	+	no	no	+	+	no	Notifications to authorities	<a href="http://www.nm.stir.ac.uk/documents/timo-kauppinen-presentation-25-04-08.pdf">http://www.nm.stir.ac.uk/documents/timo-kauppinen-presentation-25-04-08.pdf</a> <a href="http://www.tyosuojelu.fi/web/sv/arbetsforhallanden/kemiska-agenser/cmr-amnen/asa-registret">http://www.tyosuojelu.fi/web/sv/arbetsforhallanden/kemiska-agenser/cmr-amnen/asa-registret</a>  Mentioned in  <a href="https://www.researchgate.net/profile/Johnni_Hansen2/publication/12605045_Occupational_Exposure_to_Carcinogens_in_the_European_Union/links/09e4150b69f8f99322000000.pdf">https://www.researchgate.net/profile/Johnni_Hansen2/publication/12605045_Occupational_Exposure_to_Carcinogens_in_the_European_Union/links/09e4150b69f8f99322000000.pdf</a> (see CAREX above)
5	FI	FINJEM database (Finnish Information System on Occupational Exposure)	no (occasionally, not systematically)	+	+	no	no	+	+	no (occasionally, not systematically)	Estimates	<a href="http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-0274(199804)33:4%3C409::AID-AJIM12%3E3.0.CO;2-2/abstract">http://onlinelibrary.wiley.com/doi/10.1002/(SICI)1097-0274(199804)33:4%3C409::AID-AJIM12%3E3.0.CO;2-2/abstract</a>  <a href="https://pdfs.semanticscholar.org/51a9/808fb512848b52d8e08c39c218a9a053064d.pdf">https://pdfs.semanticscholar.org/51a9/808fb512848b52d8e08c39c218a9a053064d.pdf</a>
6	FR	COLCHIC	+	+	no	no	no	+		yes	Measurements.	<a href="http://oem.bmj.com/content/oemed/70/Suppl_1/A2.2.full.pdf">http://oem.bmj.com/content/oemed/70/Suppl_1/A2.2.full.pdf</a>  <a href="http://www.tandfonline.com/doi/abs/10.1080/1047322X.1995.10389045">http://www.tandfonline.com/doi/abs/10.1080/1047322X.1995.10389045</a>  <a href="http://oeh.tandfonline.com/doi/pdf/10.1080/104732201460190?needAccess=true">http://oeh.tandfonline.com/doi/pdf/10.1080/104732201460190?needAccess=true</a> <a href="https://academic.oup.com/annweh/article-lookup/doi/10.1093/annhyg/mel063">https://academic.oup.com/annweh/article-lookup/doi/10.1093/annhyg/mel063</a>  <a href="http://onlinelibrary.wiley.com/doi/10.1002/ajim.22569/abstract">http://onlinelibrary.wiley.com/doi/10.1002/ajim.22569/abstract</a>  <a href="http://en.inrs.fr/">http://en.inrs.fr/</a>  <a href="https://academic.oup.com/annweh/article/50/3/305/169992/Statistical-Modelling-of-Formaldehyde-Occupational?searchresult=1">https://academic.oup.com/annweh/article/50/3/305/169992/Statistical-Modelling-of-Formaldehyde-Occupational?searchresult=1</a>

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			work process, task, technology	sectors and occupation	per substance / product	per operation	per task	per sector	per country			
7	FR	SOLVEX	+	+				partly	partly		Measurements	<a href="http://onlinelibrary.wiley.com/doi/10.1002/ajim.22569/abstract">http://onlinelibrary.wiley.com/doi/10.1002/ajim.22569/abstract</a> <a href="http://en.inrs.fr/">http://en.inrs.fr/</a>
8	FR	FIBREX	+	+				partly	partly		Measurements	<a href="http://www.inrs.fr/publications/bdd/fibrex.html">http://www.inrs.fr/publications/bdd/fibrex.html</a> <a href="http://en.inrs.fr/">http://en.inrs.fr/</a>
9	FR	EVALUTIL	+	+	+	+		+	+	+	Estimates based on measurements or other sources	<a href="https://ssl2.isped.u-bordeaux2.fr/eva_003/(S(uf31thzw1kzu1criwmkebyxm))/Accueil.aspx">https://ssl2.isped.u-bordeaux2.fr/eva_003/(S(uf31thzw1kzu1criwmkebyxm))/Accueil.aspx</a> <a href="http://www.hse.gov.uk/aboutus/meetings/iaacs/acts/watch/010206/paper1annex4a.pdf">http://www.hse.gov.uk/aboutus/meetings/iaacs/acts/watch/010206/paper1annex4a.pdf</a>
10	FR	SYNERGIE	+	+							Measurements	Maybe in <a href="http://www.inrs.fr/publications/bdd.html">http://www.inrs.fr/publications/bdd.html</a>
11	FR	SOLVANTS	no	+	no	no	no	no	no			<a href="http://www.inrs.fr/publications/bdd/solvants.html">http://www.inrs.fr/publications/bdd/solvants.html</a>
12	IT	SIREP The Italian information system on occupational exposure to carcinogens		+	+			+	+		Measurements	<a href="https://www.ncbi.nlm.nih.gov/pubmed/17595171">https://www.ncbi.nlm.nih.gov/pubmed/17595171</a> <a href="https://academic.oup.com/annweh/article-lookup/doi/10.1093/annhyg/mem022">https://academic.oup.com/annweh/article-lookup/doi/10.1093/annhyg/mem022</a> <a href="http://www.rivm.nl/bibliotheek/rapporten/2015-0107.pdf">http://www.rivm.nl/bibliotheek/rapporten/2015-0107.pdf</a> <a href="http://oem.bmj.com/content/65/8/567">http://oem.bmj.com/content/65/8/567</a>
13	LV	Latvian Chemicals Database		+						+		
14	NO	EXPO	+	+	partly	partly	partly	partly		+	Measurements	<a href="https://stami.no/expo/">https://stami.no/expo/</a>
15	PL	Baza ChemPył	+	+	no	no	no	no		+		<a href="https://www.ciop.pl/CIOPPortalWAR/appmanager/ciop/pl?nfpb=true&amp;_pageLabel=P14400132071346315291310&amp;html_tresc_root_id=16487&amp;html_tresc_id=300001921&amp;html_klucz=405&amp;html_klucz_spis=405&amp;prvPage=1132">https://www.ciop.pl/CIOPPortalWAR/appmanager/ciop/pl?nfpb=true&amp;_pageLabel=P14400132071346315291310&amp;html_tresc_root_id=16487&amp;html_tresc_id=300001921&amp;html_klucz=405&amp;html_klucz_spis=405&amp;prvPage=1132</a> <a href="https://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-article-BPP4-0001-0118/c/Dobrzynska_eng.pdf">https://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-article-BPP4-0001-0118/c/Dobrzynska_eng.pdf</a>

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			work process, task, technology	sectors and occupation	per substance / product	per operation	per task	per sector	per country				
16	PL	Annual report of the State Sanitary Inspection								+			
17	PL	"unique report" (annual report of GEP – Office for Strategy and Planning)								?			
18	RO	National Program for Monitoring the Determinant Factors of Life and Work Environment	+	+	+	+			+	+		Notifications to authorities	
19	SK	RPHA - register of employees exposed to carcinogens								+		Notifications to authorities	
20	SK	Annual reports of the Public Health Authority										Notifications to authorities	
21	NL	SYNERGY (ExpoSYN)	+	+	no	no	no	no	no	no	yes (duration)	Measurements	<a href="https://www.ncbi.nlm.nih.gov/pubmed/21989165">https://www.ncbi.nlm.nih.gov/pubmed/21989165</a>
22	DK	CODUST	+	+	no	no	no	no	no	no	yes (duration)	Measurements	<a href="http://www.codust.com">http://www.codust.com</a> <a href="http://oem.bmj.com/content/73/Suppl_1/A152.3">http://oem.bmj.com/content/73/Suppl_1/A152.3</a>
23	DK	ATABAS	+	+	no	no	no	no	no	no	yes (duration)	Measurements	<a href="https://arbejdstilsynet.dk/da/regler/at-vejledninger/a/d-7-1-arbejdshygjejniske-maalinger">https://arbejdstilsynet.dk/da/regler/at-vejledninger/a/d-7-1-arbejdshygjejniske-maalinger</a>
24	UK	NEDB	+	+	?	?	?	?	?	?	yes (duration)	Measurements	<a href="https://www.ncbi.nlm.nih.gov/pubmed/2705690">https://www.ncbi.nlm.nih.gov/pubmed/2705690</a> <a href="http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.898.8597&amp;rep=rep1&amp;type=pdf">http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.898.8597&amp;rep=rep1&amp;type=pdf</a> <a href="https://www.researchgate.net/profile/Amy_Hall5/publication/291974641_Capacity_Development_for_a_Canadian_Workplace_Exposure_Database/links/56a86b1808ae0fd8b3fe7155.pdf">https://www.researchgate.net/profile/Amy_Hall5/publication/291974641_Capacity_Development_for_a_Canadian_Workplace_Exposure_Database/links/56a86b1808ae0fd8b3fe7155.pdf</a> (Table 1 'International Workplace Exposure Measurements' – see

Countries covered		Name of database	Information is provided on		Number of workers exposed is provided					Information on duration and frequency of exposure is provided	Type of information on job exposure (notifications, measurements, estimates)	Sources
			work process, task, technology	sectors and occupation	per substance / product	per operation	per task	per sector	per country			
25	EU	IMA-Europe	+	+	?	?	?	?	?	yes (duration)	Measurements	also for COLCHIC & MEGA). <a href="http://www.ima-europe.eu/commitments/dust-monitoring-programme">http://www.ima-europe.eu/commitments/dust-monitoring-programme</a> <a href="http://oem.bmj.com/content/73/Suppl_1/A89.1">http://oem.bmj.com/content/73/Suppl_1/A89.1</a>
26	EU	EXASRUB	+	+	?	?	?	?	?	yes (duration)	Measurements	<a href="https://academic.oup.com/annweh/article/49/8/691/127535/A-Database-of-Exposures-in-the-Rubber">https://academic.oup.com/annweh/article/49/8/691/127535/A-Database-of-Exposures-in-the-Rubber</a>
27	EU	Asphalt Worker Exposure (AWE) database	+	+	?	?	?	?	?	yes (duration)	Measurements	<a href="https://academic.oup.com/annweh/article/44/1/57/175344/Designing-an-International-Industrial-Hygiene">https://academic.oup.com/annweh/article/44/1/57/175344/Designing-an-International-Industrial-Hygiene</a>  referred to in <a href="https://www.concawe.eu/wp-content/uploads/2017/01/rpt_04-8-2004-01364-01-e.pdf">https://www.concawe.eu/wp-content/uploads/2017/01/rpt_04-8-2004-01364-01-e.pdf</a>
28	FR	SCOLA	+	+	no	no	no	+		yes	Measurements	<a href="https://osha.europa.eu/en/tools-and-publications/publications/reports/report-soar-work-related-cancer">https://osha.europa.eu/en/tools-and-publications/publications/reports/report-soar-work-related-cancer</a>  <a href="https://www.ncbi.nlm.nih.gov/pubmed/26901238">https://www.ncbi.nlm.nih.gov/pubmed/26901238</a> (COLCHIC and SCOLA: "They cover similar industries and occupations, and contain the same ancillary information.")
29	FR	Matgéné	no	+	+	+	no	no		yes (duration)	Estimates	<a href="https://osha.europa.eu/en/tools-and-publications/publications/reports/report-soar-work-related-cancer">https://osha.europa.eu/en/tools-and-publications/publications/reports/report-soar-work-related-cancer</a>  <a href="https://academic.oup.com/annweh/article/55/8/865/265348/Matg%C3%A9n%C3%A9-A-Program-to-Develop-JobExposure-Matrices">https://academic.oup.com/annweh/article/55/8/865/265348/Matg%C3%A9n%C3%A9-A-Program-to-Develop-JobExposure-Matrices</a>
30	FR	Sumer Survey	no	+	+	no	no	yes		no	measurements	<a href="http://www.rivm.nl/bibliotheek/rapporten/2014-0083.pdf">http://www.rivm.nl/bibliotheek/rapporten/2014-0083.pdf</a>
31	BE	PROBE	?	?	?	?	?	?	?	?	?	<a href="http://oem.bmj.com/content/74/Suppl_1/A81.3">http://oem.bmj.com/content/74/Suppl_1/A81.3</a> ; database in development – little info currently available.

**Table 5.1** (continued): Other data sources with correlations to the topic

Countries covered		Name of database	Description
1	CZ	Register of occupational exposure to carcinogens: REGEX	The register currently contains 17,400 records on a total of 8,105 persons occupationally exposed to carcinogens. Provider: Institute of Health Information and Statistics
2	Cyprus	Chemical product register	Cyprus register on chemical products <a href="http://www.mlsi.gov.cy/mlsi/dli/dli.nsf/All/77D6B90C6DB86A86C225743B0031FB55?OpenDocument">http://www.mlsi.gov.cy/mlsi/dli/dli.nsf/All/77D6B90C6DB86A86C225743B0031FB55?OpenDocument</a> )
3	DE	ODIN (register of workers exposed to CMR requiring medical supervision)	Currently 50,000 exposed workers, no detailed info about substances and sectors publicly available, <a href="http://www.odin-info.de/index.php?selectedMenuId=thema_0">http://www.odin-info.de/index.php?selectedMenuId=thema_0</a>
4	DE	GVS (register of asbestos-exposed workers)	Currently 510,000 asbestos-exposed workers are registered. No detailed info about sectors and workplaces publicly available, <a href="http://gvs.bgetem.de/">http://gvs.bgetem.de/</a> <a href="http://gvs.bgetem.de/_0">http://gvs.bgetem.de/_0</a>
5	DK	Product Registry in Denmark	Provides data on volume, preparation and usage for all registered chemical substances. It uses national statistical criteria. Evaluation reports area publicly available in Danish. ( <a href="http://arbejdstilsynet.dk/en/engelsk/produktregistret/statistik.aspx">http://arbejdstilsynet.dk/en/engelsk/produktregistret/statistik.aspx</a> )
6	Nordic countries	Product registry of Denmark, Finland, Norway and Sweden	Provides data on volume, preparation and uses for all registered chemical substances. It uses national statistical criteria. <a href="http://www.spin2000.net">www.spin2000.net</a> . The register contains data on approximately 145,000 chemical products and biotechnical organisms.