



BASES DE DATOS Y APLICACIONES SOBRE LÍMITES DE EXPOSICIÓN PROFESIONAL



JUAN PORCEL
CNVM - INSHT



INSHT
LEP2016

Inicio
Metodología
Documentación
Normativa

GOBIERNO DE ESPAÑA
MINISTERIO DE EMPLEO Y SEGURIDAD SOCIAL
INSTITUTO NACIONAL DE SEGURIDAD E HIGIENE EN EL TRABAJO

LEP

LÍMITES DE EXPOSICIÓN PROFESIONAL 2016

Nº CAS:

(admite parte del nº usando guión como separador)
Aceptar

Agente Químico:

(admite parte del nombre)
Aceptar

Listado completo Agentes Químicos

Esta base de datos contiene los límites de exposición profesional para agentes químicos en España adoptados por el INSHT después de su aprobación por la Comisión Nacional de Seguridad y Salud en el Trabajo. La búsqueda de la información se puede realizar por nº CAS o por nombre del agente, bien de forma completa o introduciendo una parte del mismo.

10:46
11/04/2016

- Valores límite adoptados y propuestas de cambio
- Documentación toxicológica para el establecimiento de los límites
- Metodología de toma de muestra y análisis aplicable
- Base de datos Infocarquim para agentes cancerígenos y/o mutágenos
- Legislación y Guías Técnicas del INSHT relacionadas con la materia



LISTADO GENERAL



Limites de exposición profesional LEP2016

bdlep.insht.es:86/LEP2016/vlaallpr.jsp?Bloque=1

INSHT LEP2016

Inicio

GOBIERNO DE ESPAÑA
MINISTERIO DE EMPLEO Y SEGURIDAD SOCIAL
INSTITUTO NACIONAL DE SEGURIDAD E HIGIENE EN EL TRABAJO

LÍMITES DE EXPOSICIÓN PROFESIONAL 2016

Página 1/46: Lista de Agentes Químicos

CAS	NºCE	Agente Químico
		Aceite mineral refinado, nieblas
75-07-0	200-836-8	Acetaldehído
628-63-7	211-047-3	Acetato de n-amilo
626-38-0	210-946-8	Acetato de sec-amilo
625-16-1		Acetato de terc-amilo
140-11-4	205-399-7	Acetato de bencilo
123-86-4	204-658-1	Acetato de n-butilo
105-46-4	203-300-1	Acetato de sec-butilo
540-88-5	208-760-7	Acetato de terc-butilo
112-07-2	203-933-3	Acetato de 2-butoxietilo
		Acetato del éter monobutílico del etilenglicol
		Acetato del éter monoetilico del etilenglicol
		Acetato del éter monometílico del etilenglicol
		Acetato del éter monopropílico del etilenglicol
141-78-6	205-500-4	Acetato de etilo
111-15-9	203-839-2	Acetato de 2-etoxietilo
108-84-9	203-621-7	Acetato de sec-hexilo
123-92-2	204-662-3	Acetato de isoamilo
110-19-0	203-745-1	Acetato de isobutilo
108-22-5		Acetato de isopropenilo

Ir a la página: Ir

Página anterior

Página siguiente

10:44
11/04/2016



Limites de exposición pro x LEP2016

bdlep.insht.es:86/LEP2016/index.jsp?nav=LEP2016

INSHT
LEP2016

Inicio

Metodología

Documentación

Normativa

GOBIERNO DE ESPAÑA
MINISTERIO DE EMPLEO Y SEGURIDAD SOCIAL
INSTITUTO NACIONAL DE SEGURIDAD E HIGIENE EN EL TRABAJO

LEP

LÍMITES DE EXPOSICIÓN PROFESIONAL 2016

Nº CAS:

(admite parte del nº usando guión como separador)

Aceptar

Agente Químico:

(admite parte del nombre)

Aceptar

Listado completo Agentes Químicos

10:48
11/04/2016



Limites de exposición pro x LEP2016

bdlep.insht.es:86/LEP2016/index.jsp?nav=LEP2016

INSHT
LEP2016

Inicio

Metodología

Documentación

Normativa

GOBIERNO DE ESPAÑA
MINISTERIO DE EMPLEO Y SEGURIDAD SOCIAL
INSTITUTO NACIONAL DE SEGURIDAD E HIGIENE EN EL TRABAJO

LEP

LÍMITES DE EXPOSICIÓN PROFESIONAL 2016

Nº CAS:

(admite parte del nº usando guión como separador)

Aceptar

Agente Químico:

(admite parte del nombre)

Aceptar

Listado completo Agentes Químicos

10:49
11/04/2016



Limites de exposición prof

LEP2016

bdlep.insht.es:86/LEP2016/vlapr.jsp?ID=503&nombre=Formaldehído

INSHT

LEP2016

Inicio

VLA

VLB

Próximos VLA

Info adicional VLA

LÍMITES DE EXPOSICIÓN PROFESIONAL 2016

Formaldehído

CAS: 50-00-0

Nº CE: 200-001-8

Valores Límite Ambientales

VLA-ED ^o		VLA-EC ^o	
---	---	0,3 ppm	0,37 mg/m ³

Frases H

350-341-301-311-331-314-317

Notas

C1B	Carcinógenos o supuestos carcinógenos para el hombre. Si se supone que es un carcinógeno para el hombre, en base a la existencia de evidencias en animales. Es de aplicación el RD 665/1997.
s	Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas Base de datos de productos fitosanitarios
Sen	Sensibilizante. Véase Capítulo 6.

PDF VLA

10:42

11/04/2016



Información en pdf



Limites de exposición pro x LEP2016 x VLA-Formaldehído.pdf x

file:///C:/Users/JUAN/Downloads/VLA-Formaldehído.pdf

GOBIERNO DE ESPAÑA MINISTERIO DE EMPLEO Y SEGURIDAD SOCIAL INSTITUTO NACIONAL DE SEGURIDAD Y SALUD EN EL TRABAJO LEP

Límites de Exposición Profesional para Agentes Químicos en España, para el año 2016

Formaldehído

CAS: 50-00-0 N° CE: 200-001-8

Valores Límite Ambientales

VLA-ED®:	VLA-EC®:
---	0,3 ppm 0,37 mg/m3

Notas

C1B	Carcinógenos o supuestos carcinógenos para el hombre. Si se supone que es un carcinógeno para el hombre, en base a la existencia de evidencias en animales. Es de aplicación el RD 665/1997.
s	Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltase: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios: http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf
Sen	Sensibilizante. Véase Apartado 6.

Frases H

301	Tóxico en caso de ingestión.
311	Tóxico en contacto con la piel.
314	Provoca quemaduras graves en la piel y lesiones oculares graves
317	Puede provocar una reacción alérgica en la piel.
331	Tóxico en caso de inhalación.
341	Se sospecha que provoca defectos genéticos
350	Puede provocar cáncer

10:39 11/04/2016



APP LEP INSHT



Google Play Store interface showing the app "Límites de exposición" by INSHT.

App Details:

- Nombre:** Límites de exposición
- Desarrollador:** INSHT Herramientas
- Clasificación:** PEGI 3
- Compatibilidad:** Esta aplicación es compatible con todos tus dispositivos.
- Acciones:** Añadir a la lista de deseos, Instalar

Descripción:

La aplicación de los LEP permite la búsqueda de una forma rápida de los límites de exposición profesional para agentes químicos en España adoptados por el INSHT después de su aprobación por la Comisión Nacional de Seguridad y Salud en el Trabajo y se actualizan anualmente. El objetivo de esta aplicación es facilitar el cumplimiento del Real Decreto 374/2001 que establece la obligación del empresario de evaluar, entre otros, los riesgos derivados de la exposición por inhalación de agentes químicos, así como la restante legislación aplicable.

Similares:

- Escaleras manuales INSHT
- Peligrosidad
- Peligrosidad Grupo de sistemas con
- Uso seguro de escaleras

Table: Límites de exposición profesional 2015

CAS	NºCE	Agente Químico
75-07-6	200-836-8	Acetato de n-amilo
628-63-7	211-047-3	Acetato de n-amilo
626-38-0	210-946-8	Acetato de sec-amilo
629-16-1		Acetato de terc-amilo
140-11-4	205-399-7	Acetato de bencilo
123-86-4	204-658-1	Acetato de n-butilo
105-46-4	203-300-1	Acetato de sec-butilo
540-88-5	208-760-7	Acetato de terc-butilo
112-07-2	203-933-3	Acetato de 2-butoxi
		Acetato del éter



IFA
Institut für Arbeitsschutz der
Deutschen Gesetzlichen Unfallversicherung

[DGUV Homepage](#) | [Contact](#) | [Sitemap](#) | [Deutsch](#)

[News](#) | [Research](#) | [Technical information](#) | [GESTIS](#) | [Practical solutions](#) | [Testing/Certification](#) | [Publications](#) | [Events](#) | [Networks](#) | [About us](#)

Home

[GESTIS-database on hazardous substances](#)
[GESTIS-Stoffmanager/Stoffenmanager®](#)
[ISI information system for safety data sheets](#)
[GESTIS - Analytical methods](#)
[GESTIS - International limit values for chemical agents](#)
[Bibliography](#)
[GESTIS DNEL database](#)
[GESTIS - Scientific criteria documents](#)
[GESTIS-DUST-EX](#)
[Exposure database MEGA](#)

[www.dguv.de/ifa/GESTIS/GESTIS-Internationale-Grenzwerte-für-chemische-Substanzen-limit-values-for-chemical-agents/index-2.jsp](#)



Screenshot of the database
Source: IFA



Database now available as app
Scan the QR code or search for
GESTIS in the Apple app store



GESTIS - International limit values for chemical agents (Occupational exposure limits, OELs)

Available as app for iPhone, iPodtouch, iPad and now also as app for Android

[Open database](#)

Contents

This database contains a collection of occupational limit values for hazardous substances gathered from various EU member states, Australia, Canada (Ontario and Québec), Japan, New Zealand, Singapore, South Korea, Switzerland, The People's Republic of China, and the United States. Limit values of almost 1,800 substances are listed.

The chemical names of the substances were adopted from the nomenclature as used in the original sources for national limit values. Thus, for retrieval of substances, the use of CAS numbers is strongly recommended. For synonyms of the chemical names given, please refer to e. g. [→ GESTIS substance database](#).

The present database was elaborated in co-operation with experts from:

- Allgemeine Unfallversicherungsanstalt ([→ AUVA](#)), Austria
- Belgian Federal Public Service Employment, Labour and Social Dialogue
- Chinese Standard committee of public health, subcommittee for occupational safety
- ENI Corporate, Italy
- Eurofins Danmark A/S
- Finnish Institute of Occupational Health ([→ FIOH](#)), Finland

Webcode

Additional information

[→ Bibliography](#)

Update

Latest update of the database:
October 2015.

Further international OELs

[→ Argentina](#) (Spanish, Homepage of the [→ provider](#))
[→ Brazil](#) (Portuguese)
Canada
[→ Alberta](#) (PDF, 2,6 MB) (English; see Table 2, p. S1-2ff.)
[→ British Columbia](#) (English)
[→ Czech Republic](#) (PDF, 77 KB) (Czech)
[→ Estonia](#) (Estonian)
[→ India](#) (English, Homepage of the [→ provider](#))
[→ Japan](#) (English, Homepage of the [→ provider](#))
[→ Latvia](#) (1. pielikums, Latvian)
[→ Lithuania](#) (DOC, 1,9 MB) (Lithuanian)
[→ Norway](#) (Norwegian)
[→ Denmark](#) (PDF, 216 KB)



10:57

11/04/2016

INSTITUCIONES PARTICIPANTES

- Allgemeine Unfallversicherungsanstalt [\(AUVA\)](#), Austria
- [Belgian Federal Public Service Employment, Labour and Social Dialogue](#)
- [Chinese Standard committee of public health, subcommittee for occupational safety](#)
- [ENI Corporate](#), Italy
- [Eurofins Danmark A/S](#)
- Finnish Institute of Occupational Health [\(FIOH\)](#), Finland
- Health and Safety Laboratory [\(HSL\)](#), Great Britain
- Institut National de Recherche et de Sécurité [\(INRS\)](#), France
- Institut de recherche Robert Sauvé en santé et en sécurité du travail [\(IRSST\)](#), Canada, Quebec
- Institute for Applied Environmental Research, Air Pollution Laboratory [\(ITM\)](#), Sweden
- Instituto Nacional de Seguridad e Higiene en el Trabajo [\(INSHT\)](#), Spain
- Korea Occupational Safety and Health Agency ([KOSHA](#)), South Korea
- National Institute for Occupational Safety and Health [\(NIOSH\)](#), USA
- National Institute of Occupational Safety and Health [\(JNIOSH\)](#), Japan
- Nofer Institute of Occupational Medicine ([NIOM](#)), Poland
- Nemzeti Munkaügyi Hivatal [\(NFSZ\)](#), Hungary
- [suva](#), Switzerland
- [safe work australia](#), Australia
- Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area [\(DFG\)](#), Germany
- Workplace Safety and Health Institute ([WSH](#)), Singapore
- [Worksafe](#), New Zealand

INFORMACIÓN COMPLEMENTARIA

Further international OELs

[Argentina](#) (Spanish, Homepage of the [provider](#))

[Brazil](#) (Portuguese)

Canada

[Alberta](#) (English; see Table 2, p. S1-2ff.)

[British Columbia](#) (English)

[Czech Republic](#) (Czech)

[Estonia](#) (Estonian)

[India](#) (English, Homepage of the [provider](#))

[Japan](#) (English, Homepage of the [provider](#))

[Latvia](#) (1. pielikums, Latvian)

[Lithuania](#) (.DOC, 1,9 MB) (Lithuanian)

[Norway](#) (Norwegian)

[Portugal](#) (Portuguese)

[Slovakia](#) (Slovak; cancerogenic and mutagenic substances with [updates](#))

[South Africa](#) (English)

Substance



CAS No.

Search

Clear

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Alphabetical Listing - A

Substance	CAS No.
Acephate	30560-19-1
Acetaldehyde	75-07-0
Acetamide	60-35-5
Acetic acid	64-19-7
Acetic anhydride	108-24-7
Acetone	67-64-1
Acetonitrile	75-05-8
Acetophenone	98-86-2
Acetylene	74-86-2
O-Acetylsalicylic acid	50-78-2

IFA
Institut für Arbeitsschutz der
Deutschen Gesetzlichen Unfallversicherung

DGUV | Contact

GESTIS International Limit Values Project partners

Substance

CAS No.

→

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

Alphabetical Listing - A

Substance	CAS No.
Acephate	30560-19-1
Acetaldehyde	75-07-0
Acetamide	60-35-5
Acetic acid	64-19-7
Acetic anhydride	108-24-7
Acetone	67-64-1
Acetonitrile	75-05-8
Acetophenone	98-86-2
Acetylene	74-86-2
O-Acetylsalicylic acid	50-78-2



IFA
Institut für Arbeitsschutz der
Deutschen Gesetzlichen Unfallversicherung

[DGUVI](#) | [Contact](#)

GESTIS International Limit Values

Project partners

Substance

CAS No.

Search

Clear

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

Alphabetical Listing - 'formaldehyde'

Substance	CAS No.
Decomposition products of Rosin-based solder flux fume (colophony) result as formaldehyde	
Formaldehyde	50-00-0
Phenol formaldehyde resin	513-77-9
Rosin core solder pyrolysis products (as formaldehyde)	
	1

Update:

October 2015

Print

Legal notice

Limites de exposición x LEP2016 x LEP2016 x IFA - databases on haz x GESTIS International Li x gestis - Buscar con Go x Juan

limitvalue.ifa.dguv.de/WebForm_ueliste2.aspx

IFA Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung

DGUV | Contact

GESTIS International Limit Values Project partners

Substance	CAS No.	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Formaldehyde	50-00-0				
Australia		1	1,2	2	2,5
Austria		0,5	0,6	0,5	0,6
Belgium				0,3	0,38
Canada - Ontario				1	
				1,5 (1)	
Canada - Québec				2 (1)	3 (1)
Denmark		0,3	0,4	0,3	0,4
Finland		0,3	0,37	1 (1)	1,2 (1)
France		0,5		1	
Germany (AGS)		0,3	0,37	0,6 (1)	0,74 (1)
Germany (DFG)		0,3	0,37	0,6 (1)(2)	0,74 (1)(2)
Hungary			0,6		0,6
Ireland		2	2,5	2 (1)	2,5 (1)
Japan		0,1			
Latvia			0,5		
New Zealand		0,33 (1)		1 (3)	
		0,5 (2)			
People's Republic of China					0,5 (1)
Poland			0,5		1
Singapore				0,3	0,37
South Korea		0,5	0,75	1	1,5
Spain				0,3	0,37
Sweden		0,3	0,37	0,6 (1)	0,74 (1)
Switzerland		0,3	0,37	0,6	0,74
The Netherlands			0,15		0,5
USA - NIOSH		0,016		0,1 (1)	
USA - OSHA		0,75		2	
United Kingdom		2	2,5	2	2,5

16:23 12/04/2016

Substance	Formaldehyde			
CAS No.	50-00-0			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m³	ppm	mg/m³
Australia	1	1,2	2	2,5
Austria	0,5	0,6	0,5	0,6
Belgium			0,3	0,38
Canada - Ontario			1	
			1,5 (1)	
Canada - Québec			2 (1)	3 (1)
Denmark	0,3	0,4	0,3	0,4
Finland	0,3			
France	0,5			
Germany (AGS)	0,3			
Germany (DFG)	0,3			
Hungary				
Ireland	2			
Japan	0,1			
Latvia				
New Zealand	0,33 (1)			
	0,5 (2)			
People's Republic of China				
Poland				
Singapore			0,3	0,37
South Korea	0,5	0,75	1	1,5
Spain			0,3	0,37
Sweden	0,3	0,37	0,6 (1)	0,74 (1)
Switzerland	0,3	0,37	0,6	0,74
The Netherlands		0,15		0,5
USA - NIOSH	0,016		0,1 (1)	
USA - OSHA	0,75		2	
United Kingdom	2	2,5	2	2,5

	Remarks
Canada - Ontario	(1) Ceiling limit value
Canada - Québec	(1) Ceiling limit value
Finland	(1) Ceiling limit value
Germany (AGS)	(1) 15 minutes average value
Germany (DFG)	(1) STV 15 minutes average value (2) A momentary value of 1 ml/m³ (1,2 mg/m³) should not be exceeded.
Ireland	(1) 15 minutes reference period
New Zealand	(1) 8 hour shift (2) 12 hour shift (3) Ceiling limit value
People's Republic of China	(1) Ceiling limit value
Spain	sen
Sweden	(1) Ceiling limit value
USA - NIOSH	(1) Ceiling limit value (15 min)

IFA
Institut für Arbeitsschutz der
Deutschen Gesetzlichen Unfallversicherung

DGUV Homepage | Contact | Sitemap | Deutsch

Google™ Benutzerdefinierte Suche

News	Research	Technical information	GESTIS	Practical solutions	Testing/Certification	Publications	Events	Networks	About us
------	----------	-----------------------	---------------	---------------------	-----------------------	--------------	--------	----------	----------

Home GESTIS > GESTIS - International limit values for chemical agents > Limit Values Spain

- ▶ GESTIS-database on hazardous substances
- ▶ GESTIS-Stoffmanager/
Stoffenmanager®
- ▶ ISI information system for safety data sheets
- ▶ GESTIS - Analytical methods
- ▼ GESTIS - International limit values for chemical agents
 - Bibliography
 - ▶ GESTIS DNEL database
 - ▶ GESTIS - Scientific criteria documents
 - ▶ GESTIS-DUST-EX
 - ▶ Exposure database MEGA

Limit Values Spain

The obligation to establish national occupational exposure limits, imposed by [Council Directive 98/24/EC](#) on EU Member States, led to the creation in 1995 of an Occupational Exposure Limits Work Group by the National Institute of Safety and Hygiene at Work (in Spanish: [Instituto Nacional de Seguridad e Higiene en el Trabajo – INSHT](#)). This work group issued a first document which was published in 1999 and has been followed by annual updates.

The transposition of this Directive into Spanish law by Royal Decree 374/2001 takes those values published by the INSHT as the appropriate reference values for those chemical agents that do not have regulatory limit values. In reality, this constitutes a mandate for the Institute to continue with this task, regularly updating the limits in order to adapt them to scientific and technical progress.

This working group reviews series of documents issued by the Scientific Committee on Occupational Exposure Limits (SCOEL), the American Conference of Governmental Industrial Hygienists ([ACGIH](#)), the Dutch Expert Committee for Occupational Standards (DECOS), the MAK Commission of the Deutsche Forschungsgemeinschaft (DFG), and other appropriate scientific sources.

The findings of the working group are sent for review and approval to the National Commission for Health and Safety at Work ([Comisión Nacional de Seguridad y Salud en el Trabajo – CNSST](#)), a professional body that advises public administrations on the formulation of preventive policies. The CNSST is made up of the state government administration, the Autonomous Region government administrations and the most representative trade union and business organizations, which constitute its four representative groups.

The [Spanish OEL list](#) contains time-weighted average values for a whole work shift (valores límite ambientales para la exposición diaria – VLA-ED) as well as short-time excursion limits (valores límite

Webcode


APLICACIÓN INFORMÁTICA GESTIS

[OEL DATABASE - Buscar](#)
[GESTIS-ILV 1.9 APK](#)
[GESTIS-ILV - Aplicaciones](#)
[Recibidos - jporcelm@gmail.com](#)

[https://apk-dl.com/gestis-ilv](#)

[Package Name, Package ID or Google Play URL](#)

[Apps](#)
[Games](#)
[Features](#)
[Contact](#)



[Download APK File](#)

GESTIS-ILV 1.9 APK

APK Downloader » Apps » Productivity » GESTIS-ILV 1.9

Download GESTIS-ILV 1.9 Latest Version APK File

App Name: GESTIS-ILV 1.9

Package Name: com.ihanwel.gestisilv

Category: Productivity

Developer: Hanno Welsch

Version: 1.9

Publish Date: November 24, 2015

File Size: 5.2M

Installs: 1,000 - 5,000

Requires Android: 3.0 and up

Content Rating: Everyone


Developer: Visit website Email hannowelsch@gmail.com

Mörkestraße 19 D-66459 Kirdel

Rate: 4.0/5 (11)

★★★★☆

[Why we can guarantee APK 100% safe?](#)



Substance Data
CEDION System
ContentsThe B...

★★★★☆

Free


[f](#)
[t](#)
[g+](#)
[r](#)

GESTIS International Limit Values

Acetate	19-05-1
Acetaldehyde	19-07-0
Acetamide	60-30-5
Acetic acid	64-19-7
Acetic anhydride	133-20-7
Acetone	67-64-1
Acetonitrile	75-05-8
Acetophenone	98-06-2
Acetylene	74-86-2
O-Acetylsalicylic acid	50-78-2

Acrylamide

Substance:	Acrylamide
CAS No.:	79-06-1
Limit value - Eight hours	ppm
Australia	0.00
Austria	0.00
Belgium	0.00
Canada - Ontario	0.00 (1)
Canada - Quebec	0.00
Denmark	0.00
France	0.1
Germany (AUS)	0.07 (100)
Germany (AUS)	0.15 (3)
Hungary	0.00
Ireland	0.00
Japan	0.1
Latvia	0.2
New Zealand	0.00
People's Republic of China	0.3
Poland	0.1
Singapore	0.00
South Korea	0.00
Spain	0.00
Sweden	0.00
Switzerland	0.00 inhalable aerosol
The Netherlands	0.16
USA - NIOSH	0.00
USA - OSHA	0.2



17:08

07/03/2016

VARIABILIDAD DE LOS LEP

Substance	Formaldehyde			
CAS No.	50-00-0			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	1	1,2	2	2,5
Austria	0,5	0,6	0,5	0,6
Belgium			0,3	0,38
Canada - Ontario			1	
			1,5 (1)	
Canada - Québec			2 (1)	3 (1)
Denmark	0,3	0,4	0,3	0,4
Finland	0,3	0,37	1 (1)	1,2 (1)
France	0,5		1	
Germany (AGS)	0,3	0,37	0,6 (1)	0,74 (1)
Germany (DFG)	0,3	0,37	0,6 (1)(2)	0,74 (1)(2)
Hungary		0,6		0,6
Ireland	2	2,5	2 (1)	2,5 (1)
Japan	0,1			
Latvia		0,5		
New Zealand	0,33 (1)		1 (3)	
	0,5 (2)			
People's Republic of China				0,5 (1)
Poland		0,5		1
Singapore			0,3	0,37
South Korea	0,5	0,75	1	1,5
Spain			0,3	0,37
Sweden	0,3	0,37	0,6 (1)	0,74 (1)
Switzerland	0,3	0,37	0,6	0,74
The Netherlands		0,15		0,5
USA - NIOSH	0,016		0,1 (1)	
USA - OSHA	0,75		2	
United Kingdom	2	2,5	2	2,5

VALORES LÍMITE DE EXPOSICIÓN PROFESIONAL

Carácter

- VINCULANTES, OBLIGATORIOS
- NO VINCULANTES, INDICATIVOS, REFERENCIAS
- MIXTOS (?)

Fundamentos

- BASADOS EN CRITERIOS DE SALUD (toxicológicos)
- BASADOS EN CRITERIOS DE VIABILIDAD (técnicos y socioeconómicos)
- HÍBRIDOS (?)

Establecimiento

- PROCESO CON DECISIONES COMPLEJAS
- DATOS LIMITADOS Y DE CALIDAD HETEROGÉNEA
- NECESIDAD DE EFECTUAR ASUNCIONES

ESTABLECIMIENTO DE LOS LEP

Volume 12, Supplement 1, 2015

< Prev | Next >



**Journal of Occupational and
Environmental Hygiene**



Taylor & Francis

Publication History

Official journal of the AIHA® (www.aiha.org) and the ACGIH® (www.acgih.org)

Special Issue: State of the Science of Occupational Exposure Limit Methods and Guidance

ESTABLECIMIENTO DE LOS LEP



Volume 12, Supplement 1, 2015

< Prev | Next >



Journal of Occupational and
Environmental Hygiene



Taylor & Francis

Publication History

Official journal of the AIHA® (www.aiha.org) and the ACGIH®
(www.acgih.org)

Special Issue: State of the Science of Occupational Exposure Limit Methods and
Guidance

COMITÉ CIENTÍFICO SOBRE LOS LÍMITES DE EXPOSICIÓN PROFESIONAL

ec.europa.eu/social/main.jsp?catId=148&intPageId=684&langId=en

About this Site | Contact | FAQ | Cookies | Search | Legal notice | English (en)

EMPLOYMENT, SOCIAL AFFAIRS & INCLUSION

European Commission

European Commission > Employment, Social Affairs & Inclusion > ... > Health and safety at work

POLICIES AND ACTIVITIES | NEWS AND MULTIMEDIA | PUBLICATIONS AND DOCUMENTS

Search

Health and safety at work - Scientific Committee on Occupational Exposure Limits (SCOEL)

The Scientific Committee on Occupational Exposure Limit Values (SCOEL) was set up in 1995 with the mandate to advise the European Commission on occupational exposure limits for chemicals in the workplace.

It does this through the preparation of scientific recommendations for the Commission which are used to underpin regulatory proposals on occupational Exposure Limit Values (OELVs) for chemicals in the workplace. During this procedure draft recommendations from SCOEL undergo a stakeholder consultation to allow interested parties to submit health-based scientific comments and further data.

The Committee is composed of a maximum of 21 members selected from candidates among independent highly qualified scientific experts in the fields of chemistry, toxicology, epidemiology, occupational medicine or industrial hygiene. SCOEL members review the available information on priority chemical substances and recommend exposure limits where possible.

SCOEL is regulated by the [Commission Decision 2014/113/EU](#) of 3 March 2014, which aligns its functioning with the Commission's rules on expert groups.

An [open call for expression of interest to appoint members for a 6th term of office of SCOEL](#) was launched by the Commission and published in the Official Journal of the European Union on 21 October 2014.

Activities and meetings

- Consultations, ongoing
- Mandates from the Commission Services
- Meeting Agendas and Minutes

European employment strategy

- Employment package
- Integration of refugees and asylum seekers into the labour market
- Youth employment
- Supporting entrepreneurs and the self-employed
- Long-term unemployment
- Rights at work
- Health and safety at work**
 - EU Occupational Safety and Health (OSH) Strategic Framework 2014-2020
 - Areas of activity
 - Labour law
 - Tackling discrimination at work
 - Restructuring
 - Flexicurity

News & Events

12/10/2015
EU support for safer workplaces and fair production in producing countries
[more news](#)

Events

Related Documents

- Adopted SCOEL amendment decision
- SCOEL Methodology for the Derivation of Occupational Exposure Limits (Version 7)
- Note on the 93rd meeting of the Scientific Committee on Occupational Exposure Limits - 24 & 25 september 2014
- List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs)
- Commission Decision on setting up a Scientific Committee on Occupational Exposure Limits for Chemical Agents and repealing Decision 95/320/EC

[more documents](#)

10:19
11/04/2016

DOCUMENTACIÓN SCOEL

SCOEL - Buscar con Google

Health and safety at work

Health and safety at work

https://www.google.es/ur

ec.europa.eu/social/main.jsp?catId=148&langId=en&internal_pagesId=684&moreDocuments=yes&tableName=INTERNAL_PAGES

About this Site | Contact | FAQ | Cookies | Search | Legal notice | English (en)



EMPLOYMENT, SOCIAL AFFAIRS & INCLUSION

European Commission

European Commission > Employment, Social Affairs & Inclusion > ... > Health and safety at work

 POLICIES AND ACTIVITIES

NEWS AND MULTIMEDIA

PUBLICATIONS AND DOCUMENTS

European employment strategy

Employment package

Integration of refugees and asylum seekers into the labour market

+

 Youth employment

Supporting entrepreneurs and the self-employed

Long-term unemployment

▾

 Rights at work

▾

Health and safety at work

EU Occupational Safety and Health (OSH) Strategic Framework 2014-2020

Areas of activity

+

 Labour law

+

 Tackling discrimination at work

+

 Restructuring

Flexicurity

Scientific Committee on Occupational Exposure Limits

Related Documents

Adopted SCOEL amendment decision (2014)

 [en](#)

SCOEL Methodology for the Derivation of Occupational Exposure Limits (Version 7) (2013)

 [en](#)

Note on the 93rd meeting of the Scientific Committee on Occupational Exposure Limits - 24 & 25 september 2014 (2014)

 [en](#)

List of recommended health-based biological limit values (BLVs) and biological guidance values (BGVs) (2014)

 [en](#)

Commission Decision on setting up a Scientific Committee on Occupational Exposure Limits for Chemical Agents and repealing Decision 95/320/EC (2014)

 [de](#) [en](#) [fr](#)

SCOEL Recommendations (List) (2011)

 [en](#)

Further information about SCOEL's involvement in setting Occupational Exposure Limits (2009)

 [en](#)

Consolidated Indicative Occupational Exposure Limits Values (IOELVs) (2009)

 [en](#)

News & Events

12/10/2015

EU support for safer workplaces and fair production in producing countries

[more news](#)

Events

Related Links

- European Week for Safety and Health at Work - Press release by the European Agency for Safety and Health at Work
- EU Strategic Framework on Health and Safety at Work 2014-2020
- EU Programme for Employment and Social Innovation (EaSI)
- European Foundation for Living and Working Conditions

[more links](#)

More on this topic

Publications

Features

Calls for tender



B

10:24

11/04/2016

DOCUMENTACIÓN SCOEL



European Commission
Employment, Social Affairs & Inclusion
Health and Safety at work – The Scientific Committee on Occupational Exposure Limits (SCOEL)

SCOEL Recommendations

Click on the SUM number to see the relevant document

SUM	Name	CAS	Year of adoption	Comments added
1	Ethyl Acetate	141-78-6	2008	
2	Dimethyl Ether	115-10-6	1991	
3	1-Pentyl Acetate	628-63-7	1991	
4	Phosgene	75-44-5	2011	
5	Butanone	78-93-3	1999	
6	4-Methylpentan-2-one	108-10-1	1991	
7	Heptan-2-one	110-43-0	1991	
8	Heptan-3-one	106-35-4	1991	
9	5-Methylheptan-3-one	541-85-5	1991	
10	5-Methylhexan-2-one	110-12-3	1991	
11	Dimethylamine	124-40-3	1991	
12	Tetrahydrofuran	109-99-9	1992	

OSH WIKI

Networking knowledge

European Agency
for Safety and Health
at Work

navigation

- Main page
- About the OSHwiki
- EU-OSHA website
- OSHWiki community
- Recent changes
- Help
- Semantic search

articles

- Create new article
- Table of Contents

toolbox

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link
- Cite this page
- Browse properties

languages

- English

Occupational exposure limit values

0

Vote

Share

[f](#)

[t](#)

[G+](#)

[in](#)

[t](#)

[v](#)

[e](#)

[-] Occupational exposure limit values

Vibration

Occupational exposure limit values

Jolanta Skowron, Central Institute for Labour Protection - National Research Institute, Poland

Contents [hide]

- 1 Introduction
- 2 Basic definitions
- 3 Health effects of chemicals and OELs
- 4 Occupational exposure limits for carcinogenic compounds
- 5 Short term exposure limits (STEL) and ceiling (STEL-C)
- 6 Legislative aspects
- 7 Relations between occupational exposure limits and derived no effect levels
- 8 References
- 9 Links for further reading

Introduction

Occupational exposure limit values (OELs) are set to prevent occupational diseases or other adverse effects in workers exposed to hazardous chemicals in the workplace. OELs assume that exposed persons are healthy adult workers, although in some cases the OELs should also protect vulnerable groups – e.g. [pregnant women](#) or other more susceptible people. They are tools to help employers protect the health of workers who may be exposed to chemicals in the working environment. OELs are usually set for single substances, but sometimes they are also produced for common mixtures in the workplace, for example solvent mixes, oil mists, fumes from welding or diesel exhaust fume.

Basic definitions

Council Directive 80/1107/EEC, as amended by Council Directive 88/642/EEC, on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work, introduced into EU legislation of the objective of establishing occupational exposure limits (OELs)^[1]. OEL means the limit of the time-weighted average of the concentration of a chemical agent in the air within the breathing zone of a worker in relation to a specified reference period^[2].

This Directive sets out general principles for assessing and preventing risks at work from the use of chemical agents, and includes the legal framework for indicative occupational exposure limit values (IOELVs), binding occupational exposure limit values (BOELVs) and binding biological limit values:


- 'Indicative' OELs are health-based limits conventionally established only for substances for which it is possible to establish a threshold or a no effect level considered to be protective of health. To establish OEL, a thorough assessment of the available scientific information is essential as a first step. This is undertaken by the European Commission's Scientific Committee for Occupational Exposure Limits (SCOEL). These limit values should be established or revised taking into account the availability of measurement

ACGIH	American Conference of Governmental Industrial Hygienists
AF	Assessment factor
BLV	Biological Limit Value
BOELV	(EU) Binding Occupational Exposure Limit Value

17:03

07/03/2016

M Recibidos - jporcelm@gm
Chemical Exposure Limits
Juan
www.ilo.org/safework/info/publications/WCMS_151534/lang--en/index.htm#P1_24


International
Labour
Organization
Promoting Jobs, Protecting People
ILO is a specialized agency of the United Nations

Fast Navigation:
Countries
Topics
Sectors
Search ilo.org

Home
About the ILO
Newsroom
Meetings and events
Publications
Research
Labour standards
Statistics and databases
Contact Us

Occupational Safety and Health >

- News and statements >
- Areas of work > [+]
- Sectors and industries >
- Knowledge base > [-]
 - Standards and other instruments > [-]
 - Policy documents >
 - Publications and technical tools**
 - Training materials >
 - Promotional materials > [+]
 - Useful links >
- Country profiles > [-]
- CIS Network >
- Events and training > [+]
- Projects >

ILO home > About the ILO > How the ILO works > Departments and offices > Occupational Safety and Health > Knowledge base > Publications and technical tools > Chemical Exposure Limits ...

Chemical Exposure Limits

Recommended or mandatory occupational exposure limits (OELs) have been developed in many countries for airborne exposure to gases, vapours and particulates. The most widely used limits, called threshold limit values (TLVs), are those issued in the United States of America by the American Conference of Governmental Industrial Hygienists (ACGIH).

Resource list | 16 February 2011

>For airborne exposures, there are three types of limits in common use:

- the time-weighted average (TWA) exposure limit - the maximum average concentration of a chemical in air for a normal 8-hour working day and 40-hour week;
- the short-term exposure limit (STEL) - the maximum average concentration to which workers can be exposed for a short period (usually 15 minutes);
- the ceiling value - the concentration that should not be exceeded at any time.

In addition, biological exposure indices (BEIs) represent the concentration of chemicals in the body that would correspond to inhalation exposure at a specific concentration in air.

The following texts provide information on the agency responsible for the establishment and publication of exposure limits in each country with an Internet link to a table or database containing the exposure limit values.

Country	
Argentina >	Ireland >
Australia >	Japan >
Austria >	Luxembourg >
Belgium >	Malaysia >
Brazil >	Mexico >

Tools

A A+ A++ Print >

Share this content

f t G+

See also

Database

[International Chemical Safety Cards >](#)


Instructional materials

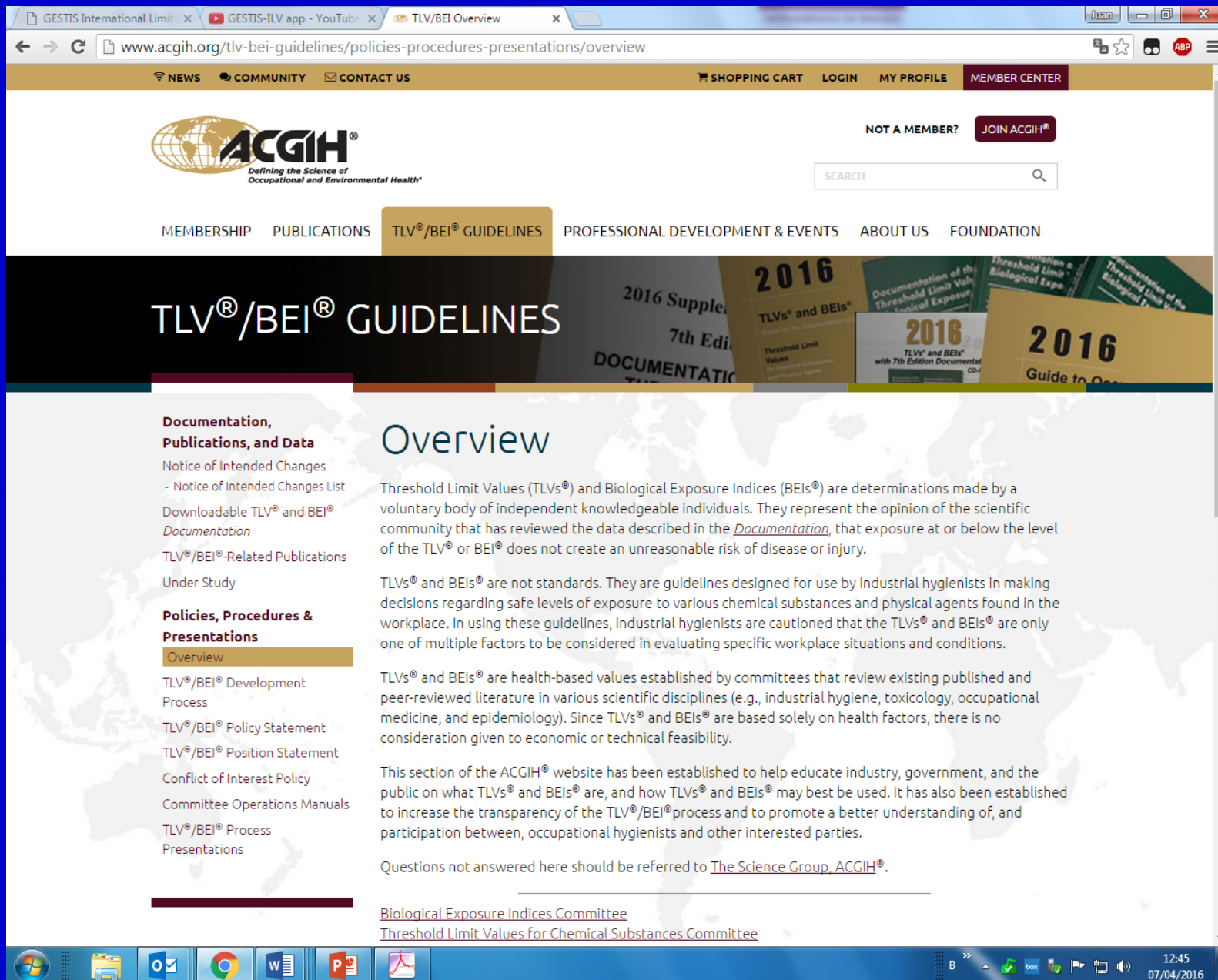
- Safety and health in the use of agrochemicals: A guide > [pdf 3615KB] >

[Chemical safety training modules >](#)

Elsewhere in this site

[Chemical Safety and the](#)





The screenshot shows the ACGIH website's 'TLV/BEI GUIDELINES' section. The browser address bar shows 'www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/overview'. The website has a navigation bar with links for NEWS, COMMUNITY, CONTACT US, SHOPPING CART, LOGIN, MY PROFILE, and MEMBER CENTER. Below this is a search bar and a 'JOIN ACGIH' button. The main navigation menu includes MEMBERSHIP, PUBLICATIONS, TLV®/BEI® GUIDELINES (highlighted), PROFESSIONAL DEVELOPMENT & EVENTS, ABOUT US, and FOUNDATION. The main content area features a large banner with the text 'TLV®/BEI® GUIDELINES' and images of various guideline documents. On the left, there are two main categories: 'Documentation, Publications, and Data' and 'Policies, Procedures & Presentations'. Under 'Documentation, Publications, and Data', there are links for 'Notice of Intended Changes', 'Downloadable TLV® and BEI® Documentation', and 'TLV®/BEI®-Related Publications Under Study'. Under 'Policies, Procedures & Presentations', there is a sub-menu with 'Overview' (highlighted), 'TLV®/BEI® Development Process', 'TLV®/BEI® Policy Statement', 'TLV®/BEI® Position Statement', 'Conflict of Interest Policy', 'Committee Operations Manuals', and 'TLV®/BEI® Process Presentations'. The 'Overview' section contains text explaining that TLVs and BEIs are determinations made by a voluntary body of independent knowledgeable individuals, representing the opinion of the scientific community. It also states that TLVs and BEIs are not standards but guidelines designed for use by industrial hygienists. The text further explains that TLVs and BEIs are health-based values established by committees that review existing published and peer-reviewed literature. A note at the bottom of the overview section states that questions not answered here should be referred to 'The Science Group, ACGIH®'. At the very bottom, there are links for the 'Biological Exposure Indices Committee' and the 'Threshold Limit Values for Chemical Substances Committee'. The Windows taskbar at the bottom shows the date as 07/04/2016 and the time as 12:45.

Documentation, Publications, and Data

- Notice of Intended Changes
 - Notice of Intended Changes List
- Downloadable TLV® and BEI® Documentation
- TLV®/BEI®-Related Publications Under Study

Policies, Procedures & Presentations

- Overview**
- TLV®/BEI® Development Process
- TLV®/BEI® Policy Statement
- TLV®/BEI® Position Statement
- Conflict of Interest Policy
- Committee Operations Manuals
- TLV®/BEI® Process Presentations

Overview

Threshold Limit Values (TLVs®) and Biological Exposure Indices (BEIs®) are determinations made by a voluntary body of independent knowledgeable individuals. They represent the opinion of the scientific community that has reviewed the data described in the *Documentation*, that exposure at or below the level of the TLV® or BEI® does not create an unreasonable risk of disease or injury.

TLVs® and BEIs® are not standards. They are guidelines designed for use by industrial hygienists in making decisions regarding safe levels of exposure to various chemical substances and physical agents found in the workplace. In using these guidelines, industrial hygienists are cautioned that the TLVs® and BEIs® are only one of multiple factors to be considered in evaluating specific workplace situations and conditions.

TLVs® and BEIs® are health-based values established by committees that review existing published and peer-reviewed literature in various scientific disciplines (e.g., industrial hygiene, toxicology, occupational medicine, and epidemiology). Since TLVs® and BEIs® are based solely on health factors, there is no consideration given to economic or technical feasibility.

This section of the ACGIH® website has been established to help educate industry, government, and the public on what TLVs® and BEIs® are, and how TLVs® and BEIs® may best be used. It has also been established to increase the transparency of the TLV®/BEI® process and to promote a better understanding of, and participation between, occupational hygienists and other interested parties.

Questions not answered here should be referred to [The Science Group, ACGIH®](#).

[Biological Exposure Indices Committee](#)
[Threshold Limit Values for Chemical Substances Committee](#)

onlineibrary.wiley.com/book/10.1002/3527600418/homepage/access_to_the_list_of_mak_and_bat_values.htm

Wiley Online Library [Log in / Register](#)

Home > Catalysis > Chemical and Environmental Health and Safety > The MAK Collection for Occupational Health and Safety

BOOK TOOLS

- Save to My Profile
- Recommend to Your Librarian

BOOK MENU

- Book Home

FIND ARTICLES

- Table of Contents
- Articles by Topic

GET ACCESS


- How to get online access

ABOUT THIS BOOK


- What's New
- Editors & Contributors

SPECIAL FEATURES


- Access to the List of MAK and BAT Values
- Access to the Print Collections
- Guidelines and Procedures of the MAK Commission
- Contact the MAK Commission



for Occupational Health and Safety



The MAK Collection for Occupational Health and Safety



Online ISBN: 9783527600410
DOI: 10.1002/3527600418

SEARCH

All content

Advanced > Saved Searches > Search in this Book >

Access to the List of MAK and BAT Values

Since the beginning of 2012, the list of MAK and BAT values is freely accessible on Wiley Online Library.

The list is published in English and in German language and is updated annually.

[List of MAK and BAT Values 2015: Maximum Concentrations and Biological Tolerance Values at the Workplace](#)

[MAK- und BAT-Werte-Liste 2015: Maximale Arbeitsplatzkonzentrationen und Biologische Arbeitsstofftoleranzwerte](#)

Wiley Online Library [Publications](#) [Browse by Subject](#) [Resources](#)
About Us Help Contact Us Agents Advertisers Media Privacy Cookies Terms & Conditions Site Map

Copyright © 1999-2016 John Wiley & Sons, Inc. All Rights Reserved. [About Wiley](#) [Wiley.com](#) [Wiley Job Network](#) **WILEY**

EH40/2005 Workplace exposure limits

www.hse.gov.uk/pubns/books/eh40.htm

HSE Health and Safety Executive

Home News Guidance About you About HSE Contact HSE Accessibility Text size: A A A

HSE » Guidance » Resources » Publications » HSE books » Full catalogue » Other » EH40/2005 Workplace exposure limits


Rate this page ☆☆☆☆ Share Free updates Bookmark Follow HSE on Twitter: Follow

Resources

- Publications
 - Endorsing third party guidance
 - + Free leaflets
 - + COSHH Essentials
 - + Newsletters
 - MDHS
- HSE Books
 - Full catalogue
 - General
 - Legal reference (L)
 - Guidance
 - Health and safety guidance (HSG)
 - Health and safety regulations (HSR)
 - Web only publications (WEB)
 - Codes of practice (COP)
 - Other

EH40/2005 Workplace exposure limits

Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations 2002 (as amended)



Date of publication: 2011
ISBN: 9780717664467
Series code: EH40
Price: £15.00
[Download a free copy](#)
[Buy this product](#)



This edition of EH40 replaces the previous version, first published in 2005, and takes account of new substances and workplace exposure limits (WELs) introduced in 2007 and 2011.

Many people are exposed to a variety of substances at work, eg chemicals, fumes, dusts etc, which can have a harmful effect on their health. If exposure to these hazardous substances is not properly controlled, it may cause ill health in a number of ways.

This book contains advice and guidance about:

- European occupational exposure limits
- workplace exposure limits
- the Control of Substances Hazardous to Health Regulations 2002 (as

Related products

-  Control of substances hazardous to health (Fifth edition)
-  Approved Classification and Labelling Guide (Sixth edition).
-  Occupational exposure limits for hyperbaric conditions: Hazard assessment document

See also

- Monitoring strategies for toxic substances
- Biological monitoring in the workplace: Guidance on its practical application to chemical exposure