Setting OELs

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Setting OELs

- Summary:
 - Historical perspective & Development
 - Current process
 - Next Code of Practice (CoP)
 - Future



Weight in the properties of the properties of

- 15th Century Dust Clouds
- 1883 OEL CO Gruber
- 1930 USSR 12 Substances
- 1931 Zernik's Schadliche Gase
- 1946 ACGIH 148 MACs -TLVs
- 1949 Patty Industrial Hygiene and Toxicology (Vol. II)



Wistorical Perspective

● 1985 - UK EH40

1994 - Code of Practice for the Safety Health and Welfare (Chemical Agents) Regulations, 1994.

CoP to be updated biennially.



Regulation Update

- Chemical Agents Regulations, 2001
- Transposing:
 - 98/24/EC CA Directive
 - 2000/39/EC 1st list of IOELVs
- Carcinogen Regulations, 2001



EU Dimension

- Objectives:
 - Prevent/limit exposure
 - Protect exposed workers
- Setting OELVs part of strategy
- Set up SCOEL

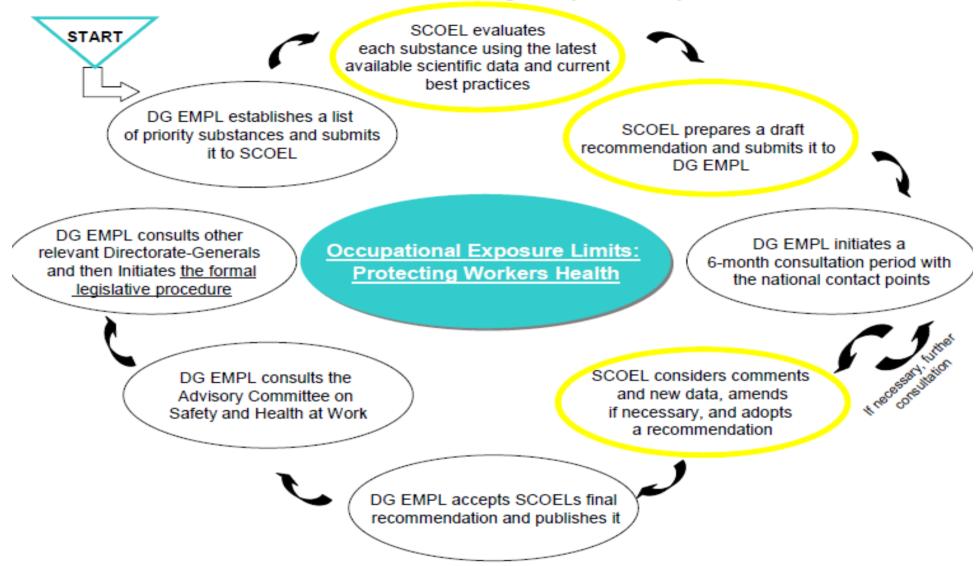


SCOEL Committee

- Commission Decision 95/320/EC
- 21 Members
- Proposed by EU member states
- Appointed by the Commission.
- Scientists:
 - chemistry,
 - toxicology,
 - epidemiology,
 - occupational medicine
 - occupational hygiene
- Independent experts



SCOEL's involvement in setting Occupational Exposure Limits





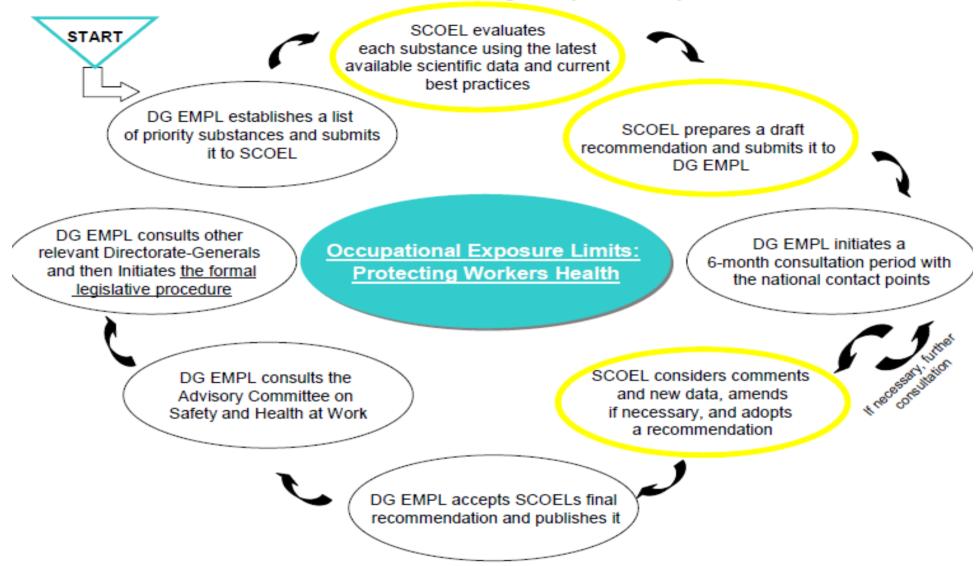


Banned zone (non-acceptable risk) 1a. What is the maximal acceptable risk? 1b. Corresponds to what exposure level? 2. Feasibility. Intermediate zone **Health effects** 3. Socio-economic and risks are considerations (Acceptable risk) proportional to exposure **IOELV**





SCOEL's involvement in setting Occupational Exposure Limits





The Formal Legislative Procedure for developing EU OELs



If Proposed OELs are based <u>ONLY</u> on Scientific Considerations then..... If Proposed OELs

ALSO take into
account socio-economic and
technical feasibility factors
then....



The
Adaptation to Technical
Progress Procedure route
Article 17 of Directive 98/24/EC



Occupational Exposure Limits:
Protecting Workers Health

The Council and European
Parliament route
Article 16 of Directive 89/391/EC
Article 3(4) of Directive 98/24/EC



Indicative Occupational Exposure Limit Values

Binding OEL values/ Biological Limit Values



Incorporation of values into proposals for Commission Directives in accordance with the chemical agents directive Incorporation of values
into proposals for Council and
Parliament Directives in accordance
with the chemical agents directive
or the carcinogens and
mutagens directive



Adoption of Directive

Member State: Introduce National OELs based on Directives



Updating the OELVs

- Biennial Review
- Review data in Schedule 3
- Transposing EU lists



Current Code of Practice

August 2007 CoP

Update -Early 2010 (awaiting approval)

Notification of Publication



Chemical Agents CoP

"Gives practicable guidance as to the observance of Regulations 4(1)(e), 4(5)(d), 6(1)(c)(d) and (e) and 9(1)(b) of the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001, S.I. 619 of 2001"



Chemical Agents CoP

Occupational Exposure Limits (OELV)
 Long term/short term
 or both
 ~ 700 Chemical Agents.



Structure of CoP

- Foreword & Introduction
- Definitions, Glossary & Calculations
- Schedule 1 applicable values.
- Schedule 2 current changes
- Schedule 3 proposed changes
- Schedule 4 List of CAS Nos.



Update for 2010

- Schedule 3 proposed changes
 - ~60 substances proposed
- References:
 - ACGIH TLVs
 - EH40/07
 - EU 1st & 2nd IOELV lists



Schedule 2 Content

- Changed National values:
 - 1 value reduced to 5% TDI (SEN)
 - 6 values reduced to 10-25%
 - 2 values reduced to 40-50%
 - 1 value increased
 - 5 STEL values deleted
 - 12 New entrants



Schedule 3 Content

- 70 Proposed changes
 - 5 To be withdrawn because of insufficient data.
 - Proposed values stated.
- Source:
 - ACGIH TLVs -2009.





Schedule 3 Content (con't)

3rd List IOELVs

- 1 value is reduced to 5% Sulphuric Acid
- 3 values are reduced to 20%
- 5 values are reduced to 50%
- 1 value is increased Methyl acrylate
- 1 reduced short term value only
- 2 new entries
- 6 existing values unchanged.



Further Changes

- Foreword & Introduction
- REACH
 - CSA
 - DNEL
 - SDS
- CLP
 - Correlation table of Health Haz. Categories.



Further Changes

Definitions/Glossary

- Removed: OES, MEL
- Added: WEL, BOELV, DNEL
- Amended: Sen , C1/2, M1/2, Repro 1/2 (gender and accuracy)
- 2011 Edition Biological Exposure Indices



National Consultation

- Technical, Scientific Advisory Committee. (TSAC)
 - Committee: DETE, H.S.A. Board, ICTU, SIPTU, IBEC, DEHLG, PCS, IPCMF, EPA.

- Public Consultation
 - 1. Schedule 3 2 years for comment
 - 2. During update 1 month for comment



REACH Dimension

- REACH 'Derived No Effect Level' for substances (DNEL).
- Benchmark not an exposure limit.
- > 10 tonnes/year
- DNEL -Risk Management Measures 'the exposure scenario'.
- Exposure scenarios + RMM SDS



CHEMICAL AGENTS vs REACH

	CHEM. AGENTS	REACH
QUESTION		
Who must assess the Chemical risk?	Employer	Importer/Manufacturer
Which substances?	All haz. Subs. in workplace	>10 tonnes/annum
Requirement ?	Exposure Control at site.	Exposure Scenarios Risk Management Measures - SDS



Future Developments

- Up-date CoP biennially
- REACH CRA's (DNELS) vs. OELS
- Consultation Process
 - Commission/SCOEL
 - Industry
 - Public



Thank You

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