



Ignite sessie: de MAC-omaan

Theo Scheffers NVvA 140402



DOHSBASE v.o.f.



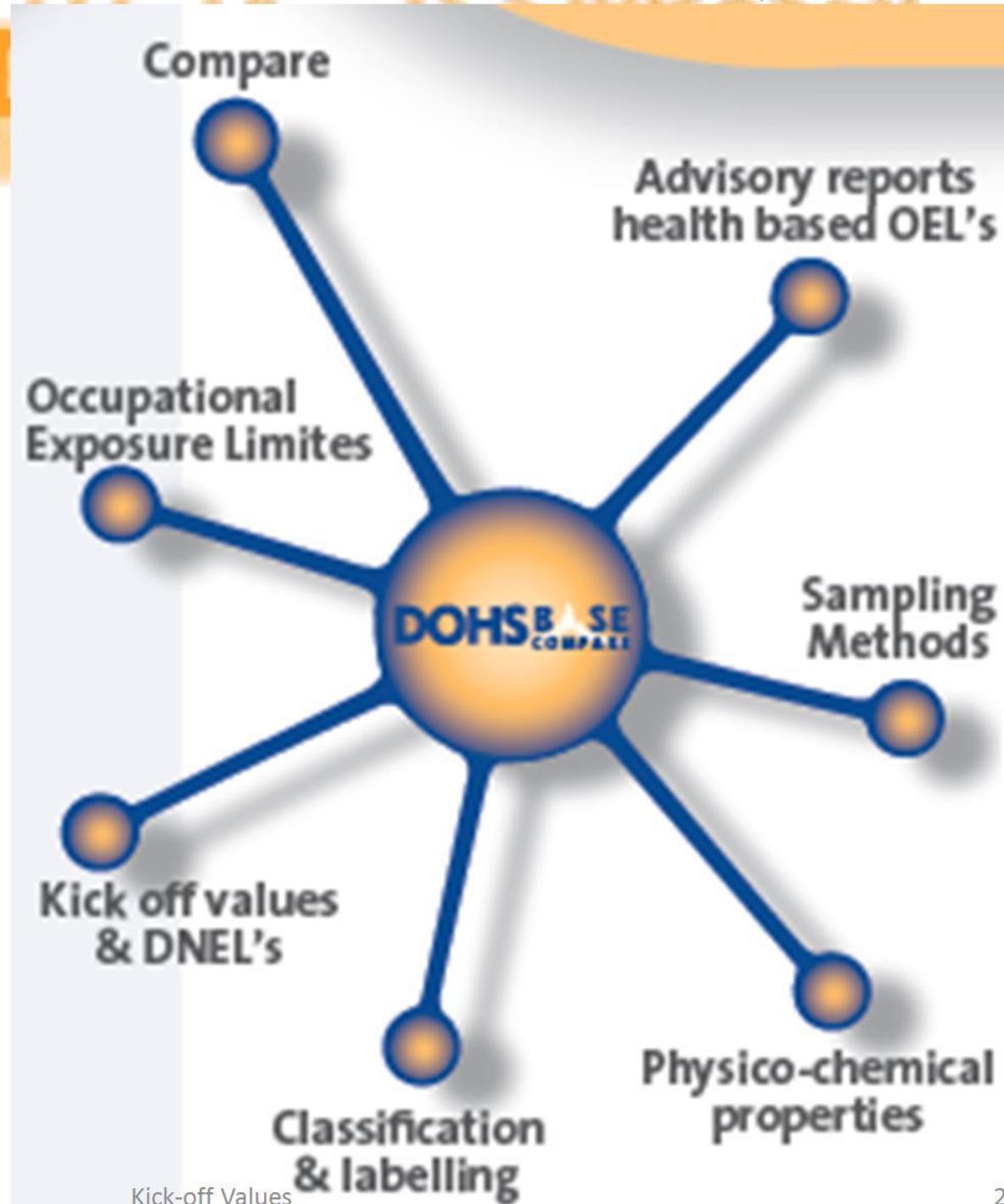
DOHSBase Compare

www.dohsbase.com

172000 substances
225000 synonyms
40000 PhysChem properties
8000 harmonized CLPs
3800 OELV
2000 Kickoff levels
2000 REACH DN/MELs
2500 analytical methods

DOHSBase Compare UK-Xtend

Name	Sampling method	Principle of
Isocondroïcaneal	MDHS 25/2 related method BIA 7670	Active
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Benzalkoniummetallisch	MDHS 29/2	Active
Cobalt	MDHS 30/2	Active
Diocto(hexamethyl)	MDHS 32	Active
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Fluorides, inorganic and soluble	MDHS 35/2	Active
Fluorwaterstof	MDHS 35/2	Active
Fluorwaterstof	MDHS 35/2	Active
Fluorides, inorganic and soluble	MDHS 35/2	Active
Silica, cristalline (Quartz)	MDHS 38 reperabel stof gen. meth. BIA 8522; NL/OSH 7802	Active
Platina metallisch	MDHS 46/2	Active
Platinazulen, water oplosbaar	MDHS 46/2	Active
Butadiene(1-3)	MDHS 53/2	Active
Fullerenes, tubular	MDHS 59/3ores	Active
Glasvezels, supertin	MDHS 59/3ores	Active



Statements on DNEL (1)



Ignite

- DNEL's are systematically and significantly lower than OEL's due to rigorous safety factors



Statements on DNEL (2)



Ignite

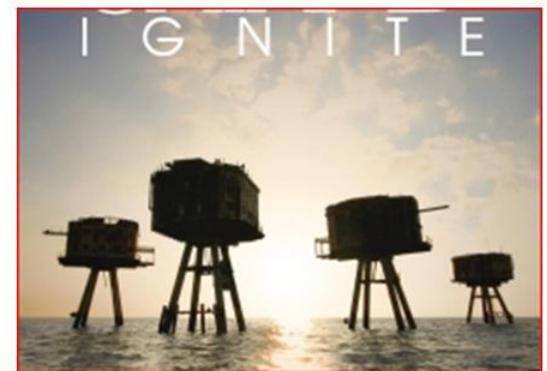
- DNEL's are systematically and significantly lower than OEL's due to rigorous safety factors
- Industry underestimates risks, therefore DNEL's are much higher than OELV





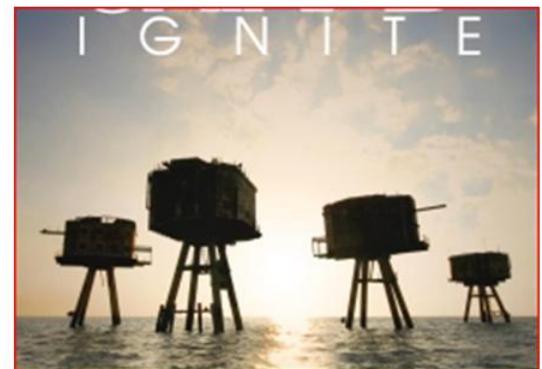
Situation (1)

1. DOHSBase OELV TWA 8 hrs: approx. 3800



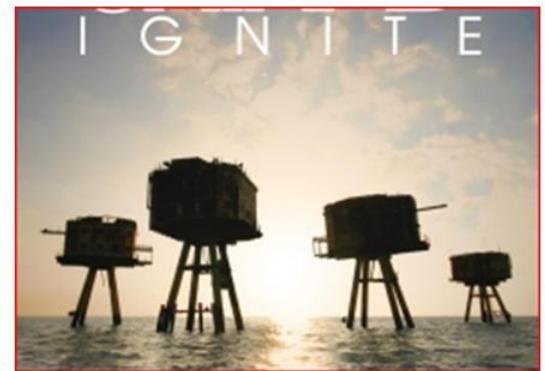
Situation (2)

1. approx. 3800 substances with OELV TWA 8 hrs
2. approx. 2000 DNEL/DMELs long-term



Situation (3)

1. DOHSBase OELV TWA 8 hrs: approx. 3800
2. GESTIS DNEL/DMELs long-term: approx. 2000
3. 411 substances with both!



DOHSBASE

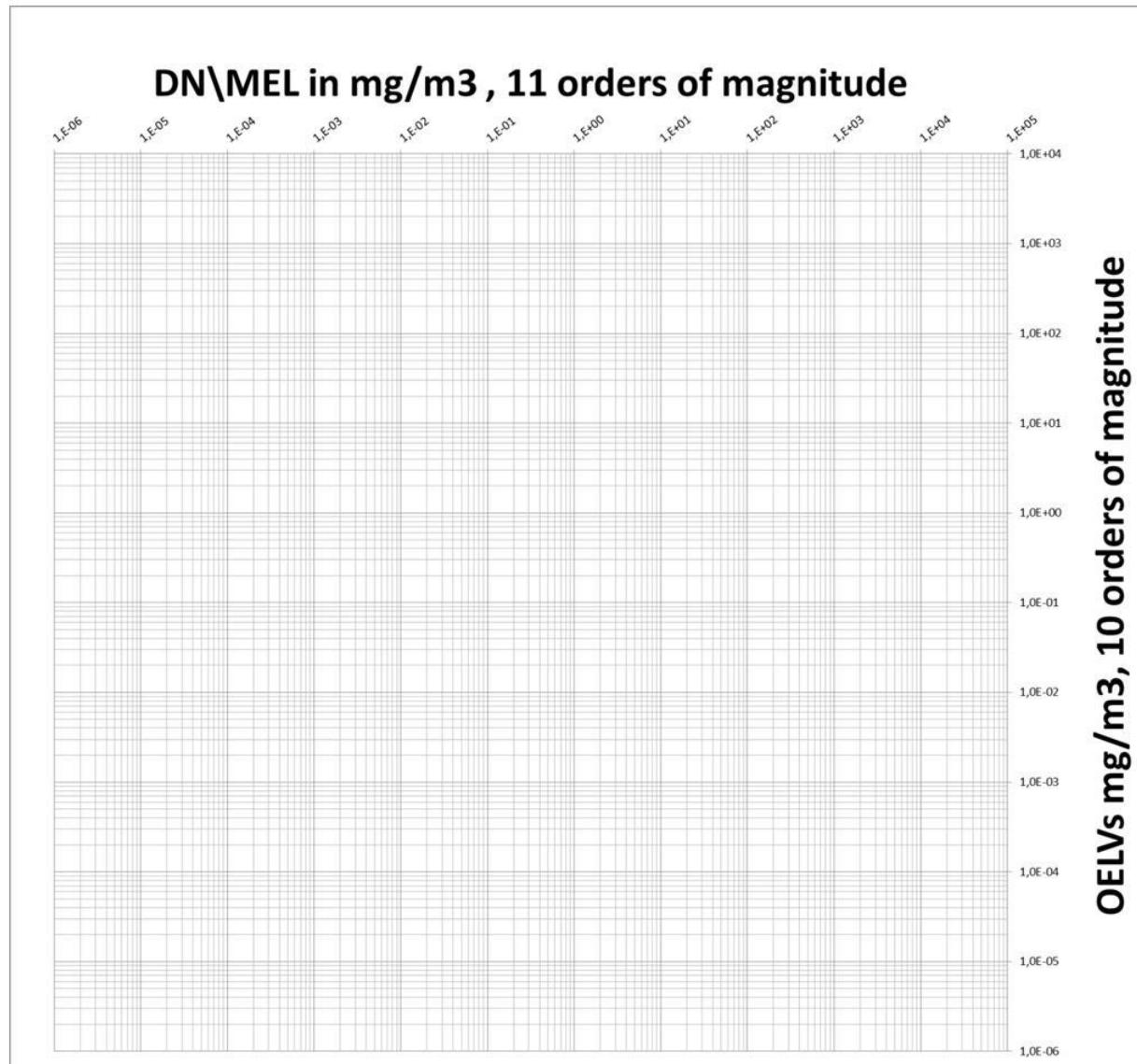
DN\MEL and OELV

Let's compare these pairs of TWA 8hour and DN\MEL of 411 substances

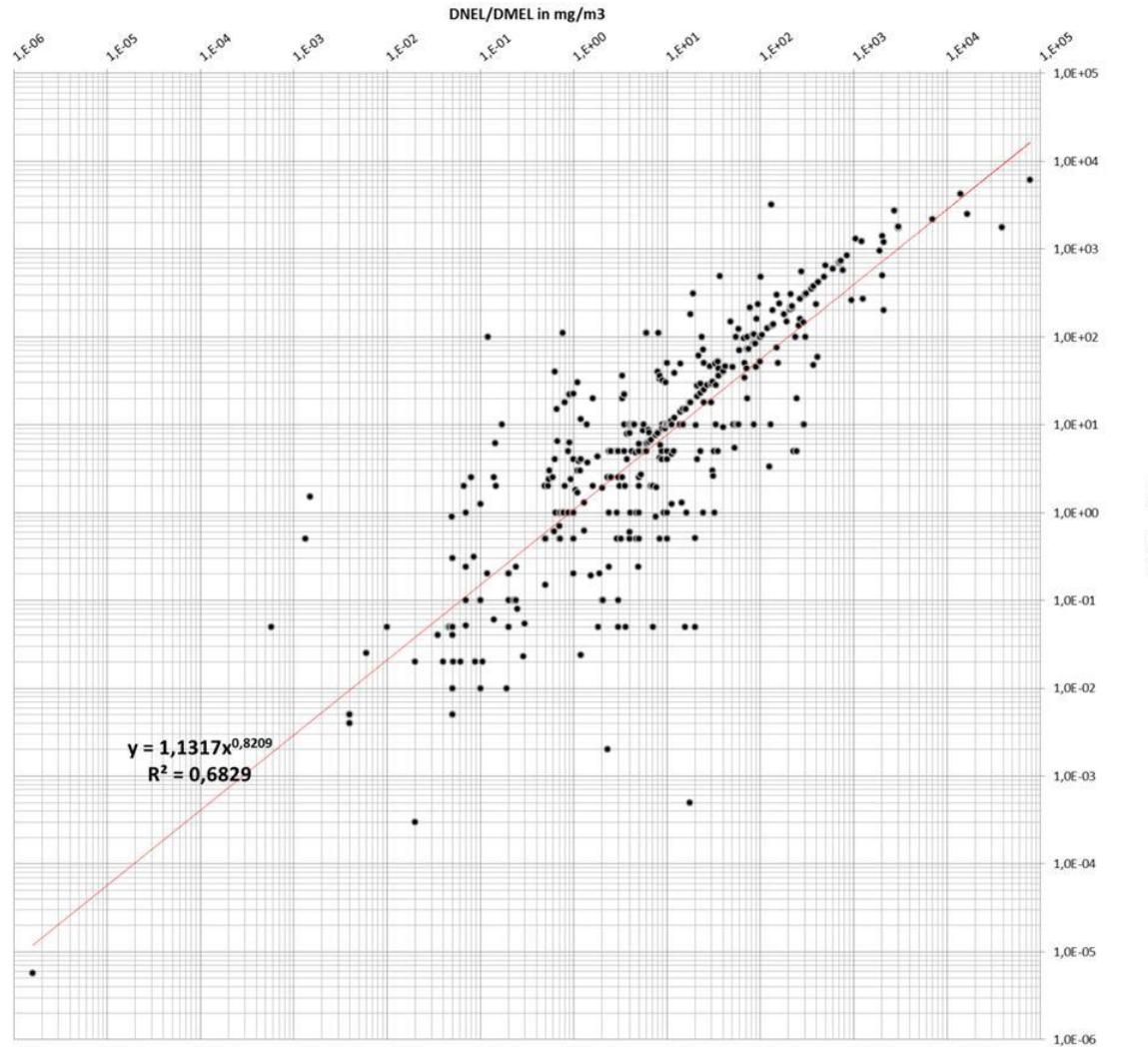


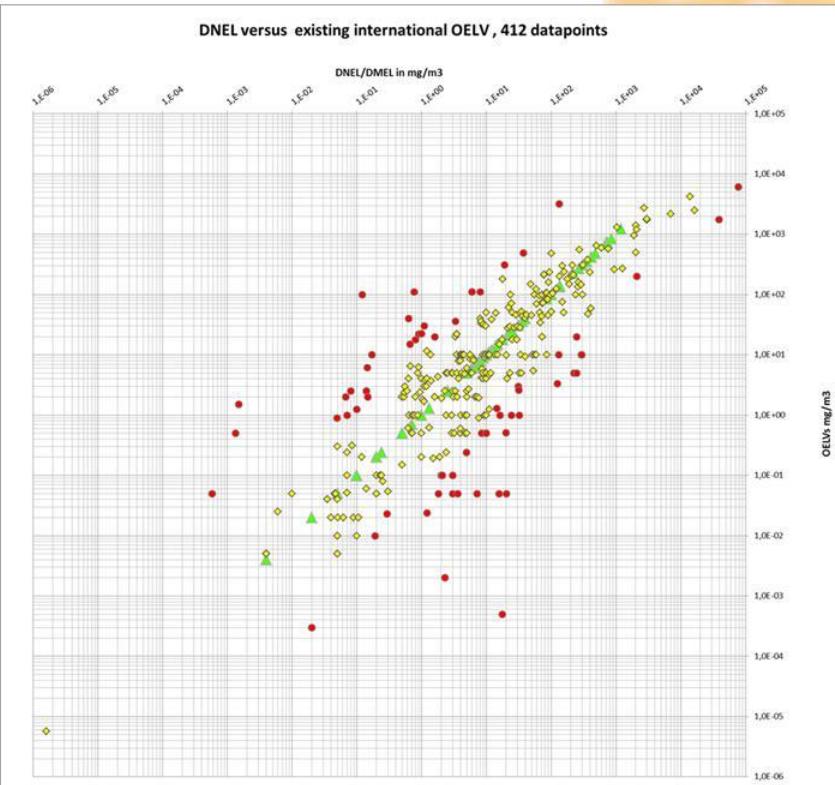
DOHSBASE

DN\MEL versus OELV



DNEL versus existing international OELV, 412 datapoints





Results & differences

Numbers of DN\MELs and OELVs that are

- Equal: 84 (SCOEL, MAK) [20%]
- within one order of magnitude: 258 [63%]
- 69 more than one orders of magnitude [17%]

What to do (1)?

To reduce conflicting compliance:

- Harmonize OELV and DNEL setting methodology
 1. Holistic (OELV) versus administrative (DN\ MEL)
 2. Reduce the toxicology dominance in REACH
 3. Escalate epidemiology/human findings





Different approaches (1)

DNEL	OELV
Long-term/short-term	8 hour/15 minutes
Exposure scenario (handling)	Shift /any period during shift



Different approaches (2)

DNEL	OELV
Long-term/short-term	8 hour/15 minutes
Exposure scenario (handling)	Shift /any period during shift
Compliance (RCR) worker with PBM use	Compliance workplace air excluding PBM use
Administrative (safety factors)	Safety factors and holistic

Better to do (2)?

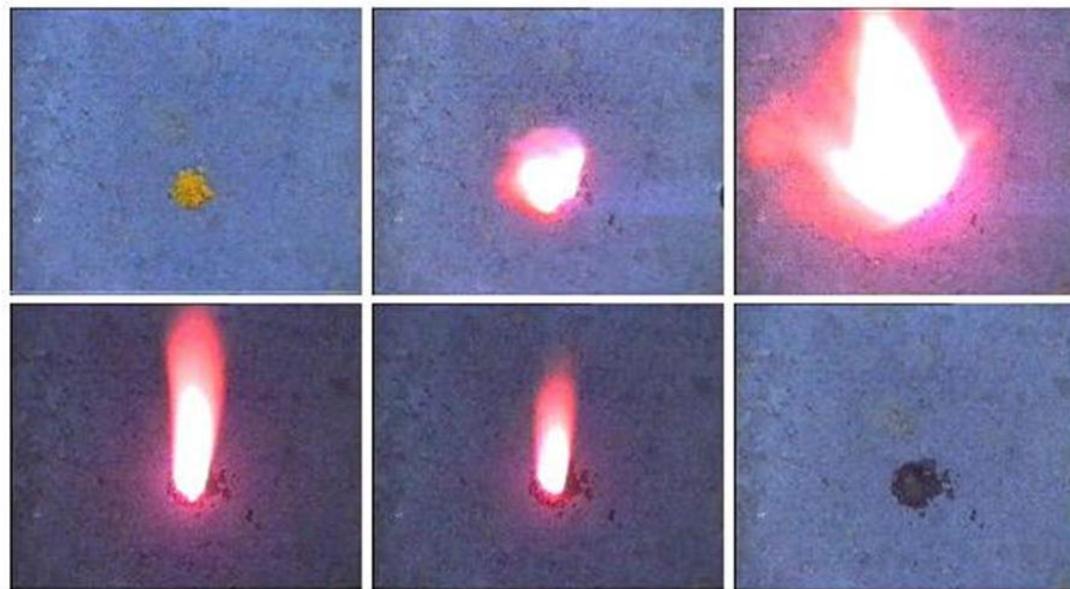
To reduce conflicting compliance:

1. Merge OELV and DNEL
2. Harmonize REACH CSR worker with Chemical Agents/Carcinogens directives



Ignite! (1)

- Stop worker DN\MEL
 - double crap,
 - money waste,
 - 3 billion € provided 1600 new and 327 conflicting limit values



Kick-off Values



Ignite! (2)

- Merge OELV and DNEL
- Harmonize REACH worker CSR and Chemical Agents (98/24) & Carcinogens (04/37) Directive:
 - Include specified PBM use as a structural control



Ignite! (3)

- Merge OELV and DNEL
- Harmonize REACH worker CSR and Chemical Agents (98/24) & Carcinogens (04/37) Directive:
 - Include specified PBM use as a structural control
 - Choose between or combine:
 - shift and handling compliance
 - Workplace air and assumed internal load
 - skin exposure: load and uptake/permeation



Post scriptum:

NVvA bestuur initieert een grenswaarde training voor arbeidsinspectie en andere betrokken (niet NVvA), na raadpleging van de leden.



Kom langs op
onze stand
(1^e etage)!

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