Features

MDWI ISOLATOR

The MDWI has been conceived to satisfy the requirements related to the handling process of highgly toxic *API*

SHELL STRUCTURE: AISI 316 L

EXTERNAL: SCOTCH-BRITE,
INTERNAL: MIRROR-BRITE

OEB 5

Theory DEFINITION

- **OEL: Operator Exposure Level**
  Time weight average concentration limit of a chemical agent on the respiration air zone of operator to a reference timing period in which most operators can be repeatedly exposed day by day without negative safety effects

- **OEB: Occupational Exposure Band**
  Count substance pure toxicology due to define categorization system up to find right equipment or work procedure

- **CPT: Conteinment Performance Target**
  Conteinment level provided by the equipment

Since there is no complete harmonization in the categories/bands it is important to always state the OEL range

Which level of ***containment***?

ISO

	OEB	OEL [µg/m³]	PDE [µg/day]	
Isolator Systems	6	<0.1	<1	Extremely Toxic
Isolator Systems or Liner Connecting Systems	5	0.1-1	1-10	Highly Toxic
Isolator Systems or Liner Connecting Systems	4	1-10	10-100	Toxic
Liner Connecting Systems or Protective Liner Connecting System Trickle Protection	3	10-100	100-1000	Less Toxic
Protective Liner Connecting System Trickle Protection	2	100-1000	1000-10000	Almost Nontoxic
Open systems with local extraction	1	1000-5000	>10000	Nontoxic

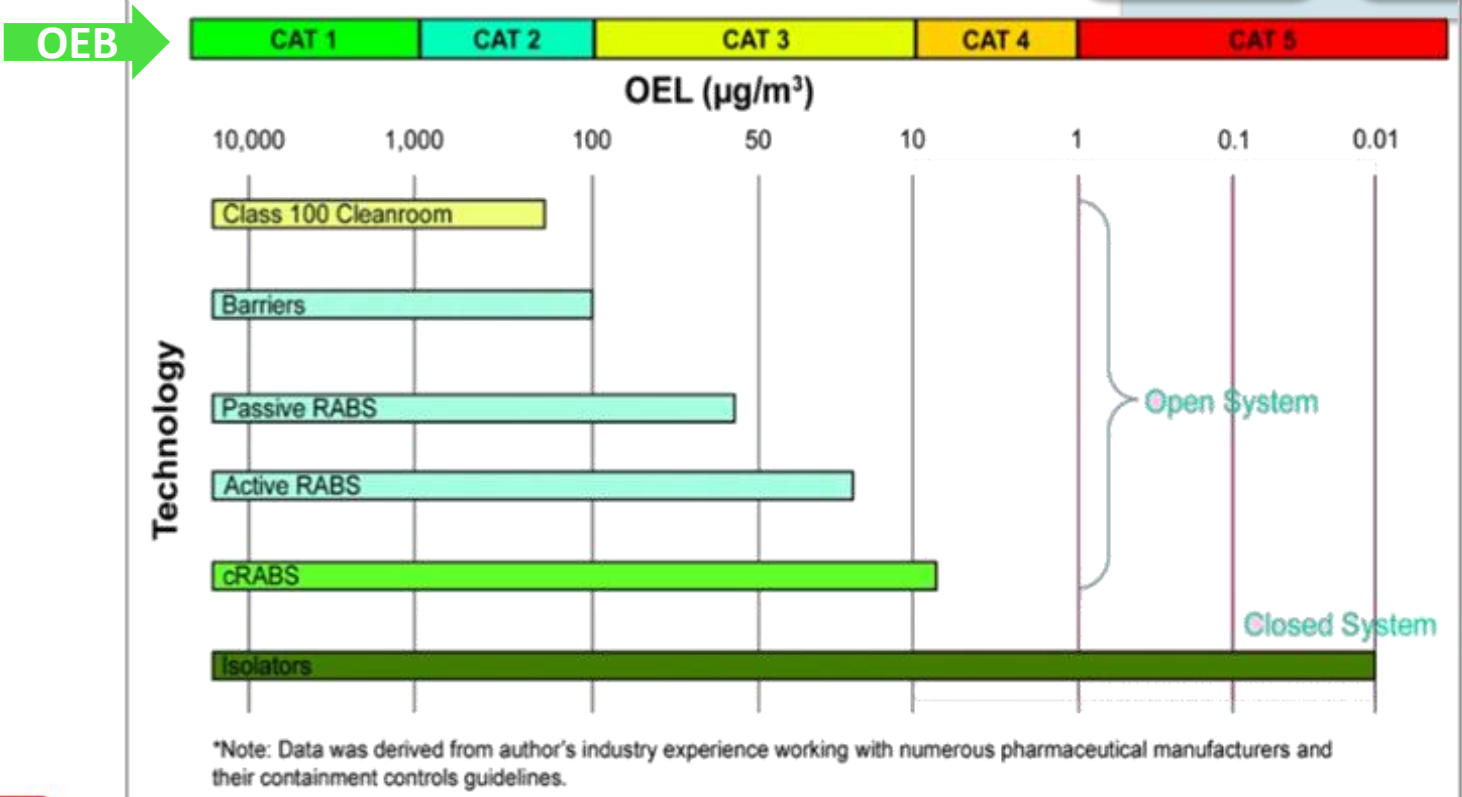
The toxicity of the APIs is measured using the OEB/OEL levels.
For each of these levels a different containment system is required.

OEB: Occupational Exposure Band

OEL: Occupational Exposure Level — Ug/m3

PDE: Permitted Daily Exposure — Ug/day

Theory DEFINITION

OEL OEB CPT

- **TABLE CLASSIFICATION EXAMPLE:**