

Global Energy Policy Research | GEPR

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Monday, June 4th, 2012

ALARA

As Low As Reasonably Achievable

ALARA

As Low As Reasonably Achievable

ALARA

MOE

Margin of Exposure

MOE

MOE

MOE

100mSv 1kg MOE 76923 2kg

??	MOE	??	?????	POD
???(a)???	130,000-7,000,000	????	COC, 2007	?????BMDL10 0.1mg/kg ??/?
6????	9,100-90,000	????	COC, 2007	?????BMDL10
???	770,000-5,500,000	???	COC, 2007	?????BMDL10
1,2-???????	4,000,000-192,000,000	???	COC, 2007	?????BMDL10
???(a)???	17,000,000-1,600,000,000???		COC, 2007	?????BMDL10 0.1mg/kg ??/?
1,2-???????	355,000 – 48,000,000	????	COC, 2007	?????BMDL10
???(a)???	10800-17900	????	EFSA, 2008	?????BMDL10 0.07mg/kg ??/?
PAH2	15900	???????	EFSA, 2008	?????BMDL10 0.17mg/kg ??/?
PAH4	17500	???????	EFSA, 2008	?????BMDL10 0.34mg/kg ??/?
PAH8	17000	???????	EFSA, 2008	?????BMDL10 0.49mg/kg ??/?
?????????	18000	?????????	EFSA, 2007	?????BMDL10 0.3mg/kg ??/?
?????????	>600	?????????????????	EFSA, 2007	?????BMDL10 0.3mg/kg ??/?
?????????	78-310	?????????????	JECFA, 2010	?????BMDL10 0.31mg/kg ??/?
?????????	50?200	?????????????????	JECFA, 2010	?????NOAEL 0.2mg/kg ??/?
?????????	45?180	?????????????	JECFA, 2010	?????BMDL10 0.18mg/kg ??/?
?????????	20000	???????	JECFA, 2005	?????BMDL10 0.3mg/kg ??/?
?????????	3800	?????	JECFA, 2005	?????BMDL10 0.3mg/kg ??/?
?????????	133-429	??????2-6???????	RIVM, 2009	?????BMDL10 0.3mg/kg ??/?
?????????	300-1,000	??????1-97?	RIVM, 2009	?????BMDL10 0.3mg/kg ??/?

??????B1	63-1,130	?????2-6?????	RIVM, 2009	?????BMDL10 0.16x 10-3mg/kg ??/?
???	480-960	????	JECFA, 2010	?????BMDL10 0.96mg/kg ??/?
?????	?????	?????????????????????	EFSA, 2009	?????????BMDL01 0.3 ? 8 µg/kg ??/?
?????	1.1-33	?????????	ANSES, 2011	?????????BMDL01 0.3 ? 8 µg/kg ??/?
?????	0.6-17	??????95?????????	ANSES, 2011	?????????BMDL01 0.3 ? 8 µg/kg ??/?
?????	0.8-27	?????????	ANSES, 2011	?????????BMDL01 0.3 ? 8 µg/kg ??/?
?????	0.4-13	??????95?????????	ANSES, 2011	?????????BMDL01 0.3 ? 8 µg/kg ??/?
????????	419-721	?????????	ANSES, 2011	?????BMDL10 0.18-0.31mg/kg ??/?
????????	176-304	??????95?????????	ANSES, 2011	?????BMDL10 0.18-0.31mg/kg ??/?
????????	261-449	?????????	ANSES, 2011	?????BMDL10 0.18-0.31mg/kg ??/?
????????	100-172	??????95?????????	ANSES, 2011	?????BMDL10 0.18-0.31mg/kg ??/?
PAH4	113409-230041	???????	ANSES, 2011	?????BMDL10 0.34mg/kg ??/?
PAH4	72433-150509	?????????	ANSES, 2011	?????BMDL10 0.34mg/kg ??/?
?????	9-32	?????	CFS, 2012	?????????BMDL05 3.0 µg/kg ??/?????
?????	5-18	?????????	CFS, 2012	?????????BMDL05 3.0 µg/kg ??/?
PAH4	186800-138800	?????????????????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	68800-50900	????????????????97.5?????????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	145900-119700	?????????????????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?

PAH4	74600-63900	????????????97.5??????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	202400-166700	????????????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	102400-84200	????????????97.5??????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	323800-267700	????????????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	179900-149800	????????????97.5??????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	269800-223700	????????????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	157400-129300	????????????97.5??????????	FSA, 2012	?????BMDL10 0.34mg/kg ??/?
PAH4	27600-15500	????????????97.5??????????	EFSA 2008	?????BMDL10 0.34mg/kg ??/?

PAH8:???(a)??????[a]????????? [b]??????????[k] ??????????[ghi]????? ??????????
[a,h]???????????? [1,2,3-cd]???
??BMDL01? 0.3 ? 8 µg/kg ??/??????????0.13? 0.56 µg/kg ??/?
??BMDL01? 0.3 ? 8 µg/kg ??/??????????0.37? 1.22 µg/kg ??/?
??????????4 µg/kg ??/????????????????3??????????2-3????
??????????POD?JECFA?2010????????????????????????????????????

??

COC????????????????????????????????????

ANSES????????????????

EFSA????????

FSA????????

JECFA?FAO/WHO????????????

RIVM????? ????????????

CFS????????????

BMDL????????95%?????

BMDL10??????10%????BMDL

NOAEL????????????????????

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