

Table 13

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Table 13. Repeated dose toxicity studies for PFCAs - PFDoDA

*Derived by contractor; ** calculated according to EFSA. (2012); NR – not reported; NA – not applicable.

Substance / CAS no. / purity / reference	Strain & species / sex / no. of animals	Dose (mg/kg bw/day) / vehicle / route of admin / duration / Guideline (GL) study / Good Laboratory Practice (GLP) status	PFAS concentration (µg/mL / µg/g)	Observed effects at LOAEL (controls vs treated groups). Recovery (controls vs treated groups).	Published NOAEL / LOAEL (mg/kg bw/day)	Study comments
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					Males (mean \pm SD):		
					\uparrow relative liver weight (%): 2.51 ± 0.14 vs $3.00 \pm 0.30^{\#}$.		
					\uparrow ALP (IU/L): 357.2 ± 28.6 vs $551.6 \pm 95.2^{\#}$.		Data su
		0, 0.1, 0.5 or 2.5.			\downarrow total cholesterol (mg/dL): 67.0 ± 9.7 vs $40.6 \pm 7.8^{\#}$.		that the
		Corn oil,					sensitiv
		Gavage,					organ a
PFDODA	Crl:CD (SD) rats.	42 days (males),			Females:	Males:	histopa
CAS No. not given	Male and female.	41-46 days			\uparrow albumin/globulin ratio: 0.92 vs 0.09 vs $1.13 \pm 0.08^{\#}$.	0.1 / 0.5.	change
97%.	12/sex/dose.	(females),	NR			Females:	includin
Kato et al. (2014)	Recovery: 5 males and females.	OECD 422, GLP not stated.			\uparrow relative liver weight (%): 3.23 ± 0.19 vs $3.70 \pm 0.22^{\#}$.	0.1 / 0.5.	hepatoc
		Recovery: 0 or 1, 14 days.			\uparrow focal necrosis: 0 vs 2 (grade 2).		hypertr
					Recovery:		hepatoc
					Data not presented as animals only treated with 200 mg/kg bw/day and not 0.5 mg/kg bw/day (LOAEL).		both se
							0.5 mg
							bw/day

PFDODA	CAS No. 307-55-1	Sprague-Dawley rats.	0, 1, 5 or 10.	Gavage, 14 days,	Males (mean \pm SEM):		
99%.	Male,	Tween 20,	NR	Non-GL study	↑ hepatic SOD activity: data only presented in figures.	Males: NA / 1*	Rats exposed to low doses of PFDODA showed the trend of decreased TG and cholesterol similar to seen in PFCAs.
Zhang et al. (2008)	10/dose.	GLP not stated.					
					Recovery not assessed.		