

Table: EPA Worker Risk Findings for Recent “Not Likely” Determinations for New Chemicals

Notes:

- (1) The yellow-highlighted cells show exceedances of EPA’s benchmark for acceptable risk for the indicated hazard endpoint, and what EPA terms its “fold factor” – the number of times by which the identified risk level exceeds EPA’s benchmark. EPA calculated these risk levels but then dismissed them based on assumed use of personal protection equipment (PPE).
- (2) Blank cells or rows indicate that EPA did not identify or calculate a risk, typically because it identified no or low hazards or expected exposure to be negligible.
- (3) Source: EDF compilation from “not likely” determination documents EPA posts [here](#); determinations with effective dates between Jun. 2020 and Feb. 2021.

New Chemical Case number	Dermal exposure			Inhalation exposure		
	Hazard/Quantified risk		Hazard/Unquantified risk	Hazard/Quantified risk		Hazard/Unquantified risk
	Endpoint	Fold factor		Endpoint	Fold factor	
P-20-0132	reproductive and developmental effects	33.3	Irritation, sensitization, genotoxicity			
P-20-0097	systemic effects	3.6	irritation			
P-20-0183			sensitization			
P-21-0012	liver effects	2.9	irritation	liver effects	0.07	
P-20-0136	systemic effects	0.05				
P-20-0185						
P-20-0107	systemic effects	0.1	skin and eye irritation, sensitization			
P-20-0170						
P-20-0171						
P-20-0172						
P-20-0102						lung overload (lung toxicity and carcinogenicity based on analogue data for carbon black)
SN-20-0006						

New Chemical Case number	Dermal exposure			Inhalation exposure		
	Hazard/Quantified risk		Hazard/Unquantified risk	Hazard/Quantified risk		Hazard/Unquantified risk
	Endpoint	Fold factor		Endpoint	Fold factor	
P-20-0094			sensitization			irritation
P-20-0076	developmental effects	1,250	corrosion, sensitization, genotoxic/ mutagenic hazards	developmental effects	0.54	
P-19-0082	developmental effects	20	irritation, sensitization	developmental effects	0.036	sensitization
P-20-0161			irritation, sensitization			irritation, acute toxicity
P-20-0154	developmental effects	0.6				
P-20-0146	systemic effects	2.8	irritation/ corrosion, sensitization			
P-19-0038						
P-18-0175	systemic effects, neurological effects	0.2	irritation, eye damage	systemic effects, neurological effects	0.002	irritation
P-20-0048	systemic effects	2.8	irritation/ corrosion, sensitization			
P-20-0049	systemic effects	2.8	irritation/ corrosion, sensitization			
P-20-0160						
P-20-0143			irritation			irritation
P-20-0098	not identified	0.3	irritation	not identified	0.09	irritation
P-20-0061	systemic effects	1.1	irritation, sensitization	respiratory tract effects	8.3	irritation, sensitization
P-18-0355			irritation	lung effects	16.7	
P-20-0111	systemic effects	1.1	irritation	systemic effects	0.09	irritation

New Chemical Case number	Dermal exposure			Inhalation exposure		
	Hazard/Quantified risk		Hazard/Unquantified risk	Hazard/Quantified risk		Hazard/Unquantified risk
	Endpoint	Fold factor		Endpoint	Fold factor	
P-16-0538	reproductive effects	0.2	acute hazard, irritation, sensitization	lung effects	0.006	
P-18-0337	systemic effects	1.2	irritation			
P-18-0335	systemic effects	1.5	irritation			
P-18-0334	systemic effects	0.98	irritation	systemic effects	0.1	
P-18-0330	nephrotoxicity	1.4	sensitization	nephrotoxicity	0.6	
P-18-0289			irritation			
P-20-0099	systemic and reproductive effects	50		lung effects	1.4	
P-20-0066	systemic effects	185	irritation	systemic effects	7.7	irritation
	cancer	11		cancer	1.8	
P-19-0162	systemic effects	1,176	irritation, corrosion, sensitization			
P-18-0336	systemic effects	0.98	irritation			
P-17-0115	maternal and developmental effects	9.1		lung effects	0.004	irritation
P-18-0308	systemic effects	0.01		systemic effects	0.2	
P-18-0370						
P-18-0371						
P-18-0369			corrosion			
P-19-0147	<i>Manufacturing:</i> systemic and developmental effects	5.9		<i>Manufacturing:</i> systemic and developmental effects	1.1	
	<i>Processing:</i> systemic and developmental effects	5.9		<i>Processing:</i> systemic and developmental effects	0.03	

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	Hazard/Quantified risk		Hazard/ Unquantified risk	Hazard/Quantified risk		Hazard/ Unquantified risk
	Endpoint	Fold factor		Endpoint	Fold factor	
	<i>Use:</i> systemic and developmental effects	0.3		<i>Use:</i> systemic and developmental effects	0.13	
P-18-0036	systemic effects	0.3	irritation			
P-18-0382	systemic effects	0.04				
P-18-0359						
P-20-0068	systemic effects	14.3		systemic effects	2.2	
P-18-0400			irritation, sensitization	respiratory effects	6.0	irritation
P-18-0399	maternal and developmental effects	0.2	irritation, sensitization	respiratory effects	6.0	irritation
P-20-0090			irritation	lung effects	20.0	irritation
P-18-0378	systemic effects	0.001	irritation	respiratory effects	0.01	
P-20-0103	behavioral toxicity	625	Irritation, corrosion			
P-20-0011	liver and kidney effects	52.6		liver and kidney effects	16.7	
P-20-0035	systemic effects	0.02				
P-20-0086						
P-20-0040	systemic effects	250	sensitization	olfactory effects	1.4	
P-20-0038	reproductive effects	25,000	irritation, sensitization, genotoxicity			
P-20-0015						
P-18-0363			irritation, corrosion			irritation, corrosion
P-18-0320	lung effects	50.0	irritation, sensitization			irritation, sensitization
P-17-0333	systemic effects	33.3	sensitization	respiratory effects	0.3	sensitization
P-16-0313			corrosion	neurological effects	0.1	corrosion

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	Endpoint	Fold factor		Endpoint	Fold factor	
P-16-0512	developmental effects	16.7	corrosion, sensitization	nasal effects	19.9	sensitization
SN-19-0006	systemic effects	100	irritation, sensitization	systemic effects	0.001	
	cancer	31,000*		cancer	1.0	
P-18-0263			irritation	lung effects	1.3	irritation
P-19-0064			irritation			
P-16-0449	systemic effects	25.0	irritation, sensitization	systemic effects	0.01	irritation
P-20-0057	urinary tract (bladder) effects	200	irritation			
P-19-0116						sensitization
P-20-0069						
P-20-0074	systemic effects	100	irritation			
P-18-0396	developmental effects	4.9	irritation	developmental effects	1.1	irritation
P-15-0633	systemic effects	1.9	irritation, sensitization	systemic effects		
P-20-0056	developmental effects	0.2	neurotoxicity, mutagenicity	developmental effects	0.3	
P-16-0326	systemic effects	6.7		systemic effects	0.005	

* EPA's [determination document](#) for "significant new use notice" (SNUN) SN-19-0006 indicates it found excess dermal cancer risk to workers, and identified the level of the cancer risk as "3.1E+0." It is not clear whether or not this value is a typographical error. Using that value yields a fold factor of 31,000.