

**APPENDIX 1**

**SUMMARY TABLES OF  
GENETIC AND RELATED EFFECTS**









**Summary table of genetic and related effects of HC Red No. 3**

Nonmammalian systems														Mammalian systems																										
Proka-ryotes		Lower eukaryotes				Plants				Insects				<i>In vitro</i>							<i>In vivo</i>																			
D	G	D	R	G	A	D	G	C	R	G	C	A	Animal cells							Human cells							Animals							Humans						
													D	G	S	M	C	A	T	I	D	G	S	M	C	A	T	I	D	G	S	M	C	DL	A	D	S	M	C	A
+ <sup>1</sup>																																								

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

*In completing the tables, the following symbols indicate the consensus of the Working Group with regard to the results for each end-point:*

- + considered to be positive for the specific endpoint and level of biological complexity
- +<sup>1</sup> considered to be positive, but only one valid study was available to the Working Group
- considered to be negative
- <sup>1</sup> considered to be negative, but only one valid study was available to the Working Group
- ? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)









**Summary table of genetic and related effects of D&C Red No. 9**

Nonmammalian systems												Mammalian systems																																					
Proka-ryotes		Lower eukaryotes				Plants			Insects			<i>In vitro</i>								<i>In vivo</i>																													
												Animal cells				Human cells				Animals				Humans																									
D	G	D	R	G	A	D	G	C	R	G	C	A	D	G	S	M	C	A	T	I	D	G	S	M	C	A	T	I	D	G	S	M	C	DL	A	D	S	M	C	A									

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

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- ? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

Summary table of genetic and related effects of CI Basic Red 9

Nonmammalian systems													Mammalian systems																											
Prokaryotes		Lower eukaryotes			Plants			Insects			<i>In vitro</i> <sup>a</sup>						<i>In vivo</i> <sup>b</sup>																							
D	G	D	R	G	A	D	G	C	R	G	C	A	Animal cells						Human cells						Animals						Humans									
D	G	D	R	G	A	D	G	C	R	G	C	A	D	G	S	M	C	A	T	I	D	G	S	M	C	A	T	I	D	G	S	M	C	DL	A	D	S	M	C	A
+	?			- <sup>1</sup>									+		- <sup>1</sup>		- <sup>1</sup>		+										-						- <sup>1</sup>					

A, aneuploidy; C, chromosomal aberrations; D, DNA damage; DL, dominant lethal mutation; G, gene mutation; I, inhibition of intercellular communication; M, micronuclei; R, mitotic recombination and gene conversion; S, sister chromatid exchange; T, cell transformation

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- ? considered to be equivocal or inconclusive (e.g., there were contradictory results from different laboratories; there were confounding exposures; the results were equivocal)

<sup>a</sup> Mutagenic in a body fluid assay

<sup>b</sup> Host-mediated assays in mouse













