

***In Vitro* Data for the IS(A) Analysis Method: by Substance**

Substance Name	CASRN	Test Lab	<i>In Vitro</i> Concentration Tested	<i>In Vitro</i> Physical Form Tested	pH	IS(A) ¹	IS(A) SD	IS(A) Classification	# of Testing Labs	% Concordance	Overall IS(A) Classification	GHS Classification ^{2,3}	EPA Classification ^{4,5}	EU Classification ^{6,7}	Reference
Acetic acid	64-19-7	1	10%	Solution	2.4	16.5	2.89	Severe	5.00	100.00	Severe	1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Acetic acid	64-19-7	2	10%	Solution	2.4	16	3.92	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Acetic acid	64-19-7	3	10%	Solution	2.4	17.25	6.24	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Acetic acid	64-19-7	4	10%	Solution	2.4	19.5	1.91	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Acetic acid	64-19-7	5	10%	Solution	2.4	17.5	4.04	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Butanol	71-36-3	1	10%	Suspension	7.31	8.25	2.87	Moderate	5.00	60.00	Severe	1.00	SCNM	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Butanol	71-36-3	2	10%	Suspension	7.31	10.5	1.91	Severe				1.00	SCNM	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Butanol	71-36-3	3	10%	Suspension	7.31	12	0.00	Severe				1.00	SCNM	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Butanol	71-36-3	4	10%	Suspension	7.31	12	0.00	Severe				1.00	SCNM	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Butanol	71-36-3	5	10%	Suspension	7.31	5.75	1.50	Moderate				1.00	SCNM	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Cetyltrimethylammonium bromide	57-09-0	1	10%	Solution	5.89	19	1.63	Severe	5.00	100.00	Severe	1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Cetyltrimethylammonium bromide	57-09-0	2	10%	Solution	5.89	13.25	2.22	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Cetyltrimethylammonium bromide	57-09-0	3	10%	Solution	5.89	18.5	1.91	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Cetyltrimethylammonium bromide	57-09-0	4	10%	Solution	5.89	11	2.45	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Cetyltrimethylammonium bromide	57-09-0	5	10%	Solution	5.89	9	0.00	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data

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Chlorhexidine gluconate solution (20% solution)	18472-51-0	1	10%	Solution	6.56	19	1.63	Severe	5.00	100.00	Severe	2B	II	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Chlorhexidine gluconate solution (20% solution)	18472-51-0	2	10%	Solution	6.56	13.5	1.00	Severe				2B	II	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Chlorhexidine gluconate solution (20% solution)	18472-51-0	3	10%	Solution	6.56	16	2.45	Severe				2B	II	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Chlorhexidine gluconate solution (20% solution)	18472-51-0	4	10%	Solution	6.56	11.75	4.86	Severe				2B	II	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Chlorhexidine gluconate solution (20% solution)	18472-51-0	5	10%	Solution	6.56	9	0.00	Severe				2B	II	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Di(2-ethylhexyl) sodium sulfosuccinate	577-11-7	1	10%	Suspension	6.54	10	0.00	Severe	5.00	80.00	Severe	1.00	I	R36	Hagino et al. (1999)/Submitted Y. Ohno Data
Di(2-ethylhexyl) sodium sulfosuccinate	577-11-7	2	10%	Suspension	6.54	10	1.63	Severe				1.00	I	R36	Hagino et al. (1999)/Submitted Y. Ohno Data
Di(2-ethylhexyl) sodium sulfosuccinate	577-11-7	3	10%	Suspension	6.54	10.25	3.50	Severe				1.00	I	R36	Hagino et al. (1999)/Submitted Y. Ohno Data
Di(2-ethylhexyl) sodium sulfosuccinate	577-11-7	4	10%	Suspension	6.54	12	0.00	Severe				1.00	I	R36	Hagino et al. (1999)/Submitted Y. Ohno Data
Di(2-ethylhexyl) sodium sulfosuccinate	577-11-7	5	10%	Suspension	6.54	5	0.00	Moderate				1.00	I	R36	Hagino et al. (1999)/Submitted Y. Ohno Data
Diisopropanolamine	110-97-4	1	10%	Solution	11.89	8.25	2.36	Moderate	5.00	60.00	Moderate	NI	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Diisopropanolamine	110-97-4	2	10%	Solution	11.89	8.5	4.04	Moderate				NI	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Diisopropanolamine	110-97-4	3	10%	Solution	11.89	9	1.15	Severe				NI	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Diisopropanolamine	110-97-4	4	10%	Solution	11.89	12	0.00	Severe				NI	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Diisopropanolamine	110-97-4	5	10%	Solution	11.89	5	0.00	Moderate				NI	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data

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Domiphen bromide	538-71-6	1	10%	Solution	6.22	19	0.00	Severe	5.00	100.00	Severe	1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Domiphen bromide	538-71-6	2	10%	Solution	6.22	15.25	2.36	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Domiphen bromide	538-71-6	3	10%	Solution	6.22	14.75	1.50	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Domiphen bromide	538-71-6	4	10%	Solution	6.22	12.25	2.36	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Domiphen bromide	538-71-6	5	10%	Solution	6.22	9	1.22	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Ethanol	64-17-5	1	10%	Solution	5.9	0	0.00	Nonirritant	5.00	100.00	Slight	NI	IV	NI	Hagino et al. (1999)/Submitted Y.
Ethanol	64-17-5	2	10%	Solution	5.9	1.25	2.50	Slight	6.00	100.00		NI	IV	NI	Hagino et al. (1999)/Submitted Y.
Ethanol	64-17-5	3	10%	Solution	5.9	10.5	1.91	Severe				NI	IV	NI	Hagino et al. (1999)/Submitted Y.
Ethanol	64-17-5	4	10%	Solution	5.9	1.5	1.73	Slight				NI	IV	NI	Hagino et al. (1999)/Submitted Y.
Ethanol	64-17-5	5	10%	Solution	5.9	1.25	2.50	Slight				NI	IV	NI	Hagino et al. (1999)/Submitted Y.
Ethanol	64-17-5		10%	Solution	7.2	4		Slight				NI	IV	NI	Kojima et al. (1995)
Ethanol	64-17-5	1	100%	Liquid		18.75	3.30	Severe	5.00	100.00	Severe	SCNM	SCNM	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Ethanol	64-17-5	2	100%	Liquid		16	2.45	Severe				SCNM	SCNM	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Ethanol	64-17-5	3	100%	Liquid		11.5	1.00	Severe				SCNM	SCNM	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Ethanol	64-17-5	4	100%	Liquid		17	0.00	Severe				SCNM	SCNM	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Ethanol	64-17-5	5	100%	Liquid		10.5	1.73	Severe				SCNM	SCNM	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data

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Glycolic acid	79-14-1	1	10%	Solution	1.76	19.5	1.00	Severe	5.00	100.00	Severe	2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Glycolic acid	79-14-1	2	10%	Solution	1.76	20	1.15	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Glycolic acid	79-14-1	3	10%	Solution	1.76	17.75	3.95	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Glycolic acid	79-14-1	4	10%	Solution	1.76	12.25	2.36	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Glycolic acid	79-14-1	5	10%	Solution	1.76	12.75	2.50	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	1	10%	Solution	1.94	20.5	1.00	Severe	5.00	100.00	Severe	SCNM	III	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	2	10%	Solution	1.94	14.25	2.06	Severe				SCNM	III	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	3	10%	Solution	1.94	19.5	1.91	Severe				SCNM	III	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	4	10%	Solution	1.94	18.5	1.91	Severe				SCNM	III	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	5	10%	Solution	1.94	10.25	2.50	Severe				SCNM	III	SCNM	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	1	100%	Liquid		21	0.00	Severe	5.00	80.00	Severe	1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	2	100%	Liquid		6.25	2.50	Moderate				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	3	100%	Liquid		16	1.15	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	4	100%	Liquid		15.25	2.50	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Lactic acid	50-21-5	5	100%	Liquid		11.5	2.89	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data

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Monoethanolamine	141-43-5	1	10%	Solution	12.58	12	0.00	Severe	5.00	100.00	Severe	2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Monoethanolamine	141-43-5	2	10%	Solution	12.58	12	0.00	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Monoethanolamine	141-43-5	3	10%	Solution	12.58	12	0.00	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Monoethanolamine	141-43-5	4	10%	Solution	12.58	12	0.00	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Monoethanolamine	141-43-5	5	10%	Solution	12.58	12	0.00	Severe				2B	III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Oil/Water Emulsion-HZA			100%	Solution		0		Nonirritant			Nonirritant	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZC			100%	Solution		0.283		Nonirritant			Nonirritant	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZE			100%	Solution		0.533		Nonirritant			Nonirritant	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZF			100%	Solution		7.33		Moderate			Moderate	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZH			100%	Solution		17.8		Severe			Severe	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZI			100%	Solution		1.97		Slight			Slight	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZJ			100%	Solution		0.917		Nonirritant			Nonirritant	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZL			100%	Solution		4.83		Slight			Slight	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZM			100%	Solution		8.33		Moderate			Moderate	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZN			100%	Solution		3.33		Slight			Slight	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZO			100%	Solution		0.5		Nonirritant			Nonirritant	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZR			100%	Solution		10.6		Severe			Severe	Category I	Category I	R41	Gettings et al. (1994)
Oil/Water Emulsion-HZS			100%	Solution		11.6		Severe			Severe	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZT			100%	Solution		4.1		Slight			Slight	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZU			100%	Solution		0		Nonirritant			Nonirritant	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)

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Oil/Water Emulsion-HZV			100%	Solution		0.6		Nonirritant			Nonirritant	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZW			100%	Solution		0.167		Nonirritant			Nonirritant	Nonirritant	Category III	Nonirritant	Gettings et al. (1994)
Oil/Water Emulsion-HZY			100%	Solution		17		Severe			Severe	Nonirritant	Category IV	Nonirritant	Gettings et al. (1994)
Potassium laurate	10124-65-9	1	10%	Solution	10.49	20	1.15	Severe	5.00	100.00	Severe	1.00	I	R41	Hagino et al. (1999)/Submitted Y.
Potassium laurate	10124-65-9	2	10%	Solution	10.49	13.25	2.50	Severe	6.00	100.00		1.00	I	R41	Hagino et al. (1999)/Submitted Y.
Potassium laurate	10124-65-9	3	10%	Solution	10.49	12	0.00	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y.
Potassium laurate	10124-65-9	4	10%	Solution	10.49	12	0.00	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y.
Potassium laurate	10124-65-9	5	10%	Solution	10.49	19.33	0.82	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y.
Potassium laurate	10124-65-9		10%	Solution	9.4	14.3		Severe				1.00	I	R41	Kojima et al. (1995)
Sodium lauryl sulfate	151-21-3		10%	Solution	5.4	7.5		Moderate			Severe	1.00	I	R41	Kojima et al. (1995)
Stearyltrimethylammonium chloride	15461-40-2	1	10%	Solution	4.24	16.75	2.06	Severe	5.00	100.00	Severe	1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Stearyltrimethylammonium chloride	15461-40-2	2	10%	Solution	4.24	13	2.00	Severe	6.00	100.00		1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Stearyltrimethylammonium chloride	15461-40-2	3	10%	Solution	4.24	15.75	3.50	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Stearyltrimethylammonium chloride	15461-40-2	4	10%	Solution	4.24	13.5	1.00	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Stearyltrimethylammonium chloride	15461-40-2	5	10%	Solution	4.24	9	0.00	Severe				1.00	I	R41	Hagino et al. (1999)/Submitted Y. Ohno Data
Stearyltrimethylammonium chloride	15461-40-2		10%	Solution	5.5	19.3		Severe				1.00	I	R41	Kojima et al. (1995)
Surfactant Based Formulation 1-HZA			10%	Solution		7.8		Moderate			Moderate	Category 1	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 2-HZB			10%	Solution		4.8		Slight			Slight	Category 1	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 3-HZC			10%	Solution		9.5		Severe			Severe	Category 1	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 4-HZD			10%	Solution		5.2		Moderate			Moderate	Category 2B	Category III	Nonirritant	Gettings et al. (1996)

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Surfactant Based Formulation 5-HZE			10%	Solution		3.8		Slight			Slight	SCNM	Category I	SCNM	Gettings et al. (1996)
Surfactant Based Formulation 6-HZF			10%	Solution		8.3		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 7-HZG			10%	Solution		6.3		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 8-HZH			10%	Solution		1.3		Slight			Slight	Nonirritant	Category IV	Nonirritant	Gettings et al. (1996)
Surfactant Based Formulation 9-HZI			10%	Solution		9.3		Severe			Severe	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 10-HZJ			10%	Solution		2.2		Slight			Slight	Nonirritant	Category IV	Nonirritant	Gettings et al. (1996)
Surfactant Based Formulation 11-HZK			10%	Solution		8.8		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 12-HZL			10%	Solution		9.6		Severe			Severe	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 13-HZM			10%	Solution		4.1		Slight			Slight	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 14-HZN			10%	Solution		6.1		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 15-HZP			10%	Solution		4.7		Slight			Slight	Nonirritant	Category III	Nonirritant	Gettings et al. (1996)
Surfactant Based Formulation 16-HZQ			10%	Solution		4.9		Slight			Slight	Nonirritant	Category III	Nonirritant	Gettings et al. (1996)
Surfactant Based Formulation 17-HZR			10%	Solution		7.7		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 18-HZS			10%	Solution		8.8		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 19-HZT			10%	Solution		0.2		Nonirritant			Nonirritant	Nonirritant	Category IV	Nonirritant	Gettings et al. (1996)
Surfactant Based Formulation 20-HZU			10%	Solution		3.7		Slight			Slight	Category 2B	Category III	R36	Gettings et al. (1996)
Surfactant Based Formulation 21-HZV			10%	Solution		7.7		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 22-HZW			10%	Solution		7.8		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 23-HZX			10%	Solution		9		Severe			Severe	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 24-HZY			10%	Solution		8.7		Moderate			Moderate	Category I	Category I	R41	Gettings et al. (1996)
Surfactant Based Formulation 25-HZZ			10%	Solution		0.7		Nonirritant			Nonirritant	Nonirritant	Category IV	Nonirritant	Gettings et al. (1996)

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Triethanolamine	102-71-6		10%	Solution		10.75		Severe			Slight	NI	IV	NI	Bagley et al. (1992)
Triethanolamine	102-71-6	1	10%	Solution	11.26	1.5	2.38	Slight	5.00	80.00		NI	IV	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	2	10%	Solution	11.26	3.75	4.79	Slight	6.00	66.00		NI	IV	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	3	10%	Solution	11.26	11	1.15	Severe				NI	IV	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	4	10%	Solution	11.26	6	1.63	Moderate				NI	IV	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	5	10%	Solution	11.26	2.5	2.89	Slight				NI	IV	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	1	100%	Liquid		5	0.00	Moderate	5.00	60.00		Moderate	NI	III	NI
Triethanolamine	102-71-6	2	100%	Liquid		6.75	3.50	Moderate			NI		III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	3	100%	Liquid		11.5	1.00	Severe			NI		III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	4	100%	Liquid		12	0.00	Severe			NI		III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triethanolamine	102-71-6	5	100%	Liquid		6.75	3.50	Moderate			NI		III	NI	Hagino et al. (1999)/Submitted Y. Ohno Data
Triton X-100	9002-93-1		1%	Solution		9		Severe			Severe	NI	IV	NI	Bagley et al. (1992)
Triton X-100	9002-93-1		10%	Solution	5.75	5		Moderate			Moderate	1.00	II	SCNM	Kojima et al. (1995)

Abbreviations: CASRN = Chemical Abstracts Service Registry Number; Conc. = concentration; EPA = U.S. Environmental Protection Agency; EU = European Union; GHS = Globally Harmonized System; SCNM = study criteria not met.

¹ IS(A) represents irritation scores that were calculated using the method described in Luepke (1985); classification scheme used as described in Luepke (1985).

² GHS=Globally Harmonized System (UN 2007)

³ Eye Irritant Category 1 = irreversible effects on the eye/serious damage to the eye; Category 2A = reversible effects on the eye/irritating to the eyes; Category 2B = reversible effects on the eye/mildly irritating to the eyes; Nonirritant = not an eye irritant.

⁴ EPA=U.S. Environmental Protection Agency (EPA 2003a).

⁵ Toxicity Category I for the Primary Eye Irritation Study = Corrosive, or corneal involvement or irritation not reversible within 21 days; Category II = Corneal involvement or irritation clearing in 8-21 days; Category III = Corneal involvement or irritation clearing in 1-7 days; Category IV: minimal effects clearing in less than 24 hr.

⁶ EU=European Union (EU 2001).

⁷ Risk phrase R41 = risk of serious damage to the eyes; R36 = irritating to the eyes; nonirritant = not an eye irritant.