

Substance	CASRN	Form Tested	Testing Lab	Opacity		Swelling		In Vitro Irritancy Classification	Overall In Vitro Irritancy Classification
				1 Hr	4 Hr	1 Hr	4 Hr		
Acetone	67-64-1	Liquid	IREA 26	3	2	10	25	Severe	Severe
Acetone	67-64-1	Liquid	IREA 23	3	2	32.6	76.3	Severe	
Acetone	67-64-1	Liquid	IREA 28	3.7	0.2	5.5	11.3	Nonsevere	
Acetone	67-64-1	Liquid	IREA 29	2	0	13	15	Nonsevere	
Ammonium nitrate	6484-52-2	Solid	IREA 26	0	0	10	25	Severe	Nonsevere
Ammonium nitrate	6484-52-2	Solid	IREA 23	0	0	3	3	Nonsevere	
Ammonium nitrate	6484-52-2	Solid	IREA 28	0	0	9.1	12.7	Nonsevere	
Ammonium nitrate	6484-52-2	Solid	IREA 29	0	0	7	0	Nonsevere	
L-Aspartic acid	70-47-3	Solid	IREA 26	0	0	5	5	Nonsevere	Nonsevere
L-Aspartic acid	70-47-3	Solid	IREA 23	0	0	0	0	Nonsevere	
L-Aspartic acid	70-47-3	Solid	IREA 28	0	0	9.2	15.3	Nonsevere	
L-Aspartic acid	70-47-3	Solid	IREA 29	1	1	6	4	Nonsevere	
Benzalkonium chloride (10%)	8001-54-5	Solution	IREA 26	2	3	20	80	Severe	Severe
Benzalkonium chloride (10%)	8001-54-5	Solution	IREA 23	2	3	41.7	62.9	Severe	
Benzalkonium chloride (10%)	8001-54-5	Solution	IREA 28	1	2	24	37.4	Severe	
Benzalkonium chloride (10%)	8001-54-5	Solution	IREA 29	1.7	2	60	112	Severe	
Benzalkonium chloride (5%)	8001-54-5	Solution	IREA 26	2	2	29.2	66.4	Severe	Severe
Benzalkonium chloride (5%)	8001-54-5	Solution	IREA 23	2	2.7	21.5	115.6	Severe	
Benzalkonium chloride (5%)	8001-54-5	Solution	IREA 28	0	1.3	27.6	114.9	Severe	
Benzalkonium chloride (5%)	8001-54-5	Solution	IREA 29	1.3	1	51	100	Severe	
Benzalkonium chloride (1 %)	8001-54-5	Solution	IREA 26	1	0	20.8	20.8	Severe	Severe
Benzalkonium chloride (1 %)	8001-54-5	Solution	IREA 23	2	0	18.8	61.7	Severe	
Benzalkonium chloride (1 %)	8001-54-5	Solution	IREA 28	0.7	0	24.8	47.8	Severe	
Benzalkonium chloride (1 %)	8001-54-5	Solution	IREA 29	0	0	31	81	Severe	
Butyl acetate	123-86-4	Liquid	IREA 26	0	0	0	5	Nonsevere	Nonsevere
Butyl acetate	123-86-4	Liquid	IREA 23	0	0	9.4	29.1	Severe	
Butyl acetate	123-86-4	Liquid	IREA 28	0	0.7	5.8	7.8	Nonsevere	
Butyl acetate	123-86-4	Liquid	IREA 29	0	0.7	11	17	Nonsevere	
g-Butyrolactone	96-48-0	Liquid	IREA 26	1	3	19.3	29.1	Severe	Severe
g-Butyrolactone	96-48-0	Liquid	IREA 23	0	2	27.4	49.6	Severe	
g-Butyrolactone	96-48-0	Liquid	IREA 28	0	1	20	30.6	Severe	
g-Butyrolactone	96-48-0	Liquid	IREA 29	0	0.7	19	44	Severe	
Captan 90 concentrate	133-06-2	Solid	IREA 26	2	2	0	10	Nonsevere	Nonsevere
Captan 90 concentrate	133-06-2	Solid	IREA 23	0	1.7	12	31.6	Severe	
Captan 90 concentrate	133-06-2	Solid	IREA 28	0	0	8.9	13.4	Nonsevere	
Captan 90 concentrate	133-06-2	Solid	IREA 29	1	0.3	5	20	Nonsevere	
4-Carboxybenzaldehyde	619-66-9	Solid	IREA 26	0	0	5	5	Nonsevere	Nonsevere

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4-Carboxybenzaldehyde	619-66-9	Solid	IREA 23	0	0	11.1	25.6	Severe	
4-Carboxybenzaldehyde	619-66-9	Solid	IREA 28	0	0.7	2.8	13.2	Nonsevere	
4-Carboxybenzaldehyde	619-66-9	Solid	IREA 29	1	1	6	8	Nonsevere	
Cetylpyridinium bromide (10%)	140-72-7	Solution	IREA 26	1	2	23.7	31.6	Severe	Severe
Cetylpyridinium bromide (10%)	140-72-7	Solution	IREA 23	2	3	23	87.4	Severe	
Cetylpyridinium bromide (10%)	140-72-7	Solution	IREA 28	0	1	11.7	30.1	Severe	
Cetylpyridinium bromide (10%)	140-72-7	Solution	IREA 29	0.33	0.7	13	25	Severe	
Cetylpyridinium bromide (6%)	140-72-7	Solution	IREA 26	1	2	30	30	Severe	Severe
Cetylpyridinium bromide (6%)	140-72-7	Solution	IREA 23	0	2.7	28.1	46.7	Severe	
Cetylpyridinium bromide (6%)	140-72-7	Solution	IREA 28	0.3	1.3	13.6	26.3	Severe	
Cetylpyridinium bromide (6%)	140-72-7	Solution	IREA 29	1	1	14	25	Severe	
Cetylpyridinium bromide (0.1%)	140-72-7	Solution	IREA 26	0	0	24.2	25	Severe	Severe
Cetylpyridinium bromide (0.1%)	140-72-7	Solution	IREA 23	0	0	14.9	30.6	Severe	
Cetylpyridinium bromide (0.1%)	140-72-7	Solution	IREA 28	0	0	8.6	8.6	Nonsevere	
Cetylpyridinium bromide (0.1%)	140-72-7	Solution	IREA 29	0	0	11	15	Nonsevere	
Chlorhexidine	55-56-1	Solid	IREA 26	3	4	*	*	Severe	Severe
Chlorhexidine	55-56-1	Solid	IREA 23	0	2	19.4	37.8	Severe	
Chlorhexidine	55-56-1	Solid	IREA 28	1	2.7	17	54.7	Severe	
Chlorhexidine	55-56-1	Solid	IREA 29	1	2	44	115	Severe	
Cyclohexanol	108-93-0	Liquid	IREA 26	2	3	13.8	68.1	Severe	Severe
Cyclohexanol	108-93-0	Liquid	IREA 23	0	2	18.4	60.3	Severe	
Cyclohexanol	108-93-0	Liquid	IREA 28	1	2	29	103	Severe	
Cyclohexanol	108-93-0	Liquid	IREA 29	1.33	3	36	97	Severe	
Dibenzoyl-L-tartaric acid	2743-38-6	Solid	IREA 26	3	3	50	50	Severe	Nonsevere
Dibenzoyl-L-tartaric acid	2743-38-6	Solid	IREA 23	0	2.3	5.9	13.3	Nonsevere	
Dibenzoyl-L-tartaric acid	2743-38-6	Solid	IREA 28	0	0.3	11.8	16.7	Nonsevere	
Dibenzoyl-L-tartaric acid	2743-38-6	Solid	IREA 29	1	2	5	18	Nonsevere	
Dibenzyl phosphate	1623-08-1	Solid	IREA 26	1	1	5.1	5.1	Nonsevere	Nonsevere
Dibenzyl phosphate	1623-08-1	Solid	IREA 23	0	2	7.4	25.9	Severe	
Dibenzyl phosphate	1623-08-1	Solid	IREA 28	0	1	14.6	20.8	Nonsevere	
Dibenzyl phosphate	1623-08-1	Solid	IREA 29	1	0.3	11	14	Nonsevere	
2,6-Dichlorobenzoyl chloride	4659-45-4	Liquid	IREA 26	1	2.3	3.3	9.9	Nonsevere	Nonsevere
2,6-Dichlorobenzoyl chloride	4659-45-4	Liquid	IREA 23	0	2	21.6	36.3	Severe	
2,6-Dichlorobenzoyl chloride	4659-45-4	Liquid	IREA 28	1	2.3	5.2	24.2	Nonsevere	
2,6-Dichlorobenzoyl chloride	4659-45-4	Liquid	IREA 29	1	1	4	14	Nonsevere	
2,2-Dimethylbutanoic acid	595-37-9	Liquid	IREA 26	3	3	29.8	45.6	Severe	Severe
2,2-Dimethylbutanoic acid	595-37-9	Liquid	IREA 23	3	3	41.5	72.6	Severe	

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2,2-Dimethylbutanoic acid	595-37-9	Liquid	IREA 28	3	2.3	34	76	Severe	
2,2-Dimethylbutanoic acid	595-37-9	Liquid	IREA 29	2	2.7	29	78	Severe	
2,5-Dimethylhexanediol	110-03-2	Solid	IREA 26	1	1	35	35	Severe	Nonsevere
2,5-Dimethylhexanediol	110-03-2	Solid	IREA 23	0	0	10.3	14	Nonsevere	
2,5-Dimethylhexanediol	110-03-2	Solid	IREA 28	0	0	5.9	11.8	Nonsevere	
2,5-Dimethylhexanediol	110-03-2	Solid	IREA 29	0.33	0.7	10	5	Nonsevere	
Ethanol	64-17-5	Liquid	IREA 26	2	3	50	60.8	Severe	Severe
Ethanol	64-17-5	Liquid	IREA 23	1	3	14.2	48.5	Severe	
Ethanol	64-17-5	Liquid	IREA 28	1.2	2.3	17.8	41	Severe	
Ethanol	64-17-5	Liquid	IREA 29	2.67	2	25	60	Severe	
Ethyl acetate	141-78-6	Liquid	IREA 26	0	2	6.5	13.7	Nonsevere	Severe
Ethyl acetate	141-78-6	Liquid	IREA 23	0	2	18	45.1	Severe	
Ethyl acetate	141-78-6	Liquid	IREA 28	0	0.7	19.8	38.7	Severe	
Ethyl acetate	141-78-6	Liquid	IREA 29	0	1	14	25	Severe	
2-Ethyl-1-hexanol	104-76-7	Liquid	IREA 26	1	1	16.7	16.7	Nonsevere	Nonsevere
2-Ethyl-1-hexanol	104-76-7	Liquid	IREA 23	0	1	5.9	20.7	Nonsevere	
2-Ethyl-1-hexanol	104-76-7	Liquid	IREA 28	0	1.7	8.3	24.7	Nonsevere	
2-Ethyl-1-hexanol	104-76-7	Liquid	IREA 29	0	2	12	19	Nonsevere	
Ethyl-2-methylacetoacetate	609-14-3	Liquid	IREA 26	0	1	2.5	5	Nonsevere	Severe
Ethyl-2-methylacetoacetate	609-14-3	Liquid	IREA 23	1	2.7	25.2	29.4	Severe	
Ethyl-2-methylacetoacetate	609-14-3	Liquid	IREA 28	0	2	25.5	36.5	Severe	
Ethyl-2-methylacetoacetate	609-14-3	Liquid	IREA 29	0.67	1	12	14	Nonsevere	
Ethyl trimethyl acetate	3938-95-2	Liquid	IREA 26	0	1	5.3	10.5	Nonsevere	Nonsevere
Ethyl trimethyl acetate	3938-95-2	Liquid	IREA 23	0	2	14.3	19.3	Nonsevere	
Ethyl trimethyl acetate	3938-95-2	Liquid	IREA 28	0	0.3	2.9	13.3	Nonsevere	
Ethyl trimethyl acetate	3938-95-2	Liquid	IREA 29	0	0	4	5	Nonsevere	
Fomesafen	72128-02-0	Solid	IREA 26	3	3	25	25	Severe	Severe
Fomesafen	72128-02-0	Solid	IREA 23	0	1.7	2.3	29.3	Severe	
Fomesafen	72128-02-0	Solid	IREA 28	0	0	5.5	12	Nonsevere	
Fomesafen	72128-02-0	Solid	IREA 29	0.33	0	4	-1	Nonsevere	
Glycerol	56-81-5	Liquid	IREA 26	0	1	9.2	10	Nonsevere	Nonsevere
Glycerol	56-81-5	Liquid	IREA 23	0	0	5.2	5.2	Nonsevere	
Glycerol	56-81-5	Liquid	IREA 28	0	0.3	11.3	11.3	Nonsevere	
Glycerol	56-81-5	Liquid	IREA 29	0	0	5	4	Nonsevere	
<i>n</i> -Hexanol	111-27-3	Liquid	IREA 26	1.3	2	20.5	38.5	Severe	Severe
<i>n</i> -Hexanol	111-27-3	Liquid	IREA 23	0	3	13.7	43.6	Severe	
<i>n</i> -Hexanol	111-27-3	Liquid	IREA 28	0	2.7	19.1	62.1	Severe	

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				1 Hr	4 Hr	1 Hr	4 Hr		
<i>n</i> -Hexanol	111-27-3	Liquid	IREA 29	1.33	3	21	49	Severe	
Imidazole	288-32-4	Solid	IREA 26	2	3	50	80	Severe	Severe
Imidazole	288-32-4	Solid	IREA 23	3	3	45.5	75.8	Severe	
Imidazole	288-32-4	Solid	IREA 28	3	3	45.8	63.2	Severe	
Imidazole	288-32-4	Solid	IREA 29	2	2	38	80	Severe	
iso-Butanol	78-83-1	Liquid	IREA 26	2	3	20	85	Severe	Severe
iso-Butanol	78-83-1	Liquid	IREA 23	0	2	14.5	47	Severe	
iso-Butanol	78-83-1	Liquid	IREA 28	2	3	26	78.9	Severe	
iso-Butanol	78-83-1	Liquid	IREA 29	1.33	2	40	91	Severe	
iso-Propanol	67-63-0	Liquid	IREA 26	1.7	3	4	22.4	Severe	Severe
iso-Propanol	67-63-0	Liquid	IREA 23	2	2.3	30.9	65.5	Severe	
iso-Propanol	67-63-0	Liquid	IREA 28	0	0.7	13.1	23.4	Nonsevere	
iso-Propanol	67-63-0	Liquid	IREA 29	1.67	1.7	16	32	Severe	
Maneb	12427-38-2	Solid	IREA 26	3	2	49.2	52.5	Severe	Severe
Maneb	12427-38-2	Solid	IREA 23	0	2	29.9	37.3	Severe	
Maneb	12427-38-2	Solid	IREA 28	1	0	10.8	16.5	Nonsevere	
Maneb	12427-38-2	Solid	IREA 29	0	0	6	0	Nonsevere	
Methyl acetate	79-20-9	Liquid	IREA 26	1	3	21	49.6	Severe	Severe
Methyl acetate	79-20-9	Liquid	IREA 23	0	0	12	18.8	Nonsevere	
Methyl acetate	79-20-9	Liquid	IREA 28	1	1.7	12.2	28.1	Severe	
Methyl acetate	79-20-9	Liquid	IREA 29	0	1.7	15	26	Severe	
Methyl cyanoacetate	105-34-0	Liquid	IREA 26	0	0	5.1	5.1	Nonsevere	Nonsevere
Methyl cyanoacetate	105-34-0	Liquid	IREA 23	0	2	5.8	8.7	Nonsevere	
Methyl cyanoacetate	105-34-0	Liquid	IREA 28	0	0.3	2.9	6.8	Nonsevere	
Methyl cyanoacetate	105-34-0	Liquid	IREA 29	0.33	0.3	6	7	Nonsevere	
Methylcyclopentane	96-37-7	Liquid	IREA 26	0	0	7.4	7.4	Nonsevere	Nonsevere
Methylcyclopentane	96-37-7	Liquid	IREA 23	0	0	17.6	21	Nonsevere	
Methylcyclopentane	96-37-7	Liquid	IREA 28	0	0	2.8	5.6	Nonsevere	
Methylcyclopentane	96-37-7	Liquid	IREA 29	0	0	5	4	Nonsevere	
Methyl ethyl ketone	78-93-3	Liquid	IREA 26	2	3	20.8	91.7	Severe	Severe
Methyl ethyl ketone	78-93-3	Liquid	IREA 23	1	2	20.7	56.3	Severe	
Methyl ethyl ketone	78-93-3	Liquid	IREA 28	0	2.3	29.4	51	Severe	
Methyl ethyl ketone	78-93-3	Liquid	IREA 29	0.67	2.3	14	46	Severe	
Methyl isobutyl ketone	108-10-1	Liquid	IREA 26	1	2	34.5	40.4	Severe	Severe
Methyl isobutyl ketone	108-10-1	Liquid	IREA 23	0	3	29.3	64.6	Severe	
Methyl isobutyl ketone	108-10-1	Liquid	IREA 28	0	1.3	0	8.7	Nonsevere	
Methyl isobutyl ketone	108-10-1	Liquid	IREA 29	0	0	9	23	Nonsevere	

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				1 Hr	4 Hr	1 Hr	4 Hr		
1-Naphthalene acetic acid	86-87-3	Solid	IREA 26	0	0.3	15	15	Nonsevere	Nonsevere
1-Naphthalene acetic acid	86-87-3	Solid	IREA 23	0	2.3	21.9	24.1	Nonsevere	
1-Naphthalene acetic acid	86-87-3	Solid	IREA 28	0	0	1	2.8	Nonsevere	
1-Naphthalene acetic acid	86-87-3	Solid	IREA 29	1	1	10	13	Nonsevere	
1-Naphthalene acetic acid, Na salt	61-31-4	Solid	IREA 26	2	3	67	108.7	Severe	Severe
1-Naphthalene acetic acid, Na salt	61-31-4	Solid	IREA 23	0	2.7	16.1	41.6	Severe	
1-Naphthalene acetic acid, Na salt	61-31-4	Solid	IREA 28	0	3	61	125.1	Severe	
1-Naphthalene acetic acid, Na salt	61-31-4	Solid	IREA 29	2	2	84	155	Severe	
<i>n</i> -Octanol	111-87-5	Liquid	IREA 26	0	1	4.4	14.8	Nonsevere	Severe
<i>n</i> -Octanol	111-87-5	Liquid	IREA 23	0	2	17.6	26.1	Severe	
<i>n</i> -Octanol	111-87-5	Liquid	IREA 28	0	1.8	14.2	29.9	Severe	
<i>n</i> -Octanol	111-87-5	Liquid	IREA 29	0	1	11	16	Nonsevere	
<i>p</i> -Fluoraniline	371-40-4	Liquid	IREA 26	2	2	25	55	Severe	Severe
<i>p</i> -Fluoraniline	371-40-4	Liquid	IREA 23	0	2	27.4	63.7	Severe	
<i>p</i> -Fluoraniline	371-40-4	Liquid	IREA 28	1.3	3	33.7	68.7	Severe	
<i>p</i> -Fluoraniline	371-40-4	Liquid	IREA 29	1.67	2.2	25	70	Severe	
Polyethylene glycol 400	25322-68-3	Liquid	IREA 26	1	1	29.4	31.1	Severe	Severe
Polyethylene glycol 400	25322-68-3	Liquid	IREA 23	0	1	20.7	27.4	Severe	
Polyethylene glycol 400	25322-68-3	Liquid	IREA 28	0	0	6	12.8	Nonsevere	
Polyethylene glycol 400	25322-68-3	Liquid	IREA 29	0	0	4	-1	Nonsevere	
Potassium cyanate	590-28-3	Solid	IREA 26	0	0	9.1	9.1	Nonsevere	Nonsevere
Potassium cyanate	590-28-3	Solid	IREA 23	0	0	1.5	1.5	Nonsevere	
Potassium cyanate	590-28-3	Solid	IREA 28	0	0	5.3	11.5	Nonsevere	
Potassium cyanate	590-28-3	Solid	IREA 29	0	0	5	-1	Nonsevere	
Promethazine HCl	58-33-3	Solid	IREA 26	2	2	17.5	45	Severe	Severe
Promethazine HCl	58-33-3	Solid	IREA 23	1	3	76.1	117.1	Severe	
Promethazine HCl	58-33-3	Solid	IREA 28	1	2.3	20.8	86.9	Severe	
Promethazine HCl	58-33-3	Solid	IREA 29	2	2	62	110	Severe	
Pyridine	110-86-1	Liquid	IREA 26	1	3	18.2	53.7	Severe	Severe
Pyridine	110-86-1	Liquid	IREA 23	2	3	10.3	48.5	Severe	
Pyridine	110-86-1	Liquid	IREA 28	2	3	34.9	42.4	Severe	
Pyridine	110-86-1	Liquid	IREA 29	2.33	2.3	40	75	Severe	
Quinacrine	69-05-6	Solid	IREA 26	0	0	10.5	10.5	Nonsevere	Nonsevere
Quinacrine	69-05-6	Solid	IREA 23	0	0	0	0.7	Nonsevere	
Quinacrine	69-05-6	Solid	IREA 28	0	0.7	13	16.7	Nonsevere	
Quinacrine	69-05-6	Solid	IREA 29	0	0	5	4	Nonsevere	
Sodium hydroxide (10%)	1310-73-2	Solution	IREA 26	3	4	86	110.5	Severe	Severe

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Sodium hydroxide (10%)	1310-73-2	Solution	IREA 23	3	4	107.8	144.3	Severe	
Sodium hydroxide (10%)	1310-73-2	Solution	IREA 28	3.7	4	*	*	Severe	
Sodium hydroxide (10%)	1310-73-2	Solution	IREA 29	2	4	111	160	Severe	
Sodium hydroxide (1%)	1310-73-2	Solution	IREA 26	1.3	2	40	85	Severe	Severe
Sodium hydroxide (1%)	1310-73-2	Solution	IREA 23	0	3	41.7	65.2	Severe	
Sodium hydroxide (1%)	1310-73-2	Solution	IREA 28	1	3	57.1	121.9	Severe	
Sodium hydroxide (1%)	1310-73-2	Solution	IREA 29	1.67	3	62	102	Severe	
Sodium lauryl sulfate (15 %)	151-21-3	Solution	IREA 26	0	1	21.1	21.1	Nonsevere	Nonsevere
Sodium lauryl sulfate (15 %)	151-21-3	Solution	IREA 23	0	2	13.5	26.3	Severe	
Sodium lauryl sulfate (15 %)	151-21-3	Solution	IREA 28	0	0.3	14.5	22.3	Nonsevere	
Sodium lauryl sulfate (15 %)	151-21-3	Solution	IREA 29	0.33	2	16	24	Nonsevere	
Sodium lauryl sulfate (3 %)	151-21-3	Solution	IREA 26	0	1	5.3	15.8	Nonsevere	Nonsevere
Sodium lauryl sulfate (3 %)	151-21-3	Solution	IREA 23	0	0	13.4	22.4	Nonsevere	
Sodium lauryl sulfate (3 %)	151-21-3	Solution	IREA 28	0	0	8.4	9.3	Nonsevere	
Sodium lauryl sulfate (3 %)	151-21-3	Solution	IREA 29	0	1	12	14	Nonsevere	
Sodium oxalate	62-76-0	Solid	IREA 26	0	0	5	5	Nonsevere	Nonsevere
Sodium oxalate	62-76-0	Solid	IREA 23	0	0	0.8	6.7	Nonsevere	
Sodium oxalate	62-76-0	Solid	IREA 28	0	0	17.3	22	Nonsevere	
Sodium oxalate	62-76-0	Solid	IREA 29	0	0	6	5	Nonsevere	
Sodium perborate tetrahydrate	10486-00-7	Solid	IREA 26	0	0	5	5	Nonsevere	Nonsevere
Sodium perborate tetrahydrate	10486-00-7	Solid	IREA 23	0	0	0.8	2.3	Nonsevere	
Sodium perborate tetrahydrate	10486-00-7	Solid	IREA 28	0	0	2.9	14.7	Nonsevere	
Sodium perborate tetrahydrate	10486-00-7	Solid	IREA 29	0	0	4	0	Nonsevere	
tetra-Aminopyrimidine sulfate	5392-28-9	Solid	IREA 26	2	1	12.5	25	Severe	Nonsevere
tetra-Aminopyrimidine sulfate	5392-28-9	Solid	IREA 23	0	0	0.7	4.4	Nonsevere	
tetra-Aminopyrimidine sulfate	5392-28-9	Solid	IREA 28	0	0	1	2.9	Nonsevere	
tetra-Aminopyrimidine sulfate	5392-28-9	Solid	IREA 29	1	2	3	9	Nonsevere	
Thiourea	62-56-6	Solid	IREA 26	0	0	10	10	Nonsevere	Nonsevere
Thiourea	62-56-6	Solid	IREA 23	0	0	5.1	5.1	Nonsevere	
Thiourea	62-56-6	Solid	IREA 28	0	0	5.7	5.7	Nonsevere	
Thiourea	62-56-6	Solid	IREA 29	0	0.7	7	4	Nonsevere	
Toluene	108-88-3	Liquid	IREA 26	1	1	28.3	30	Severe	Severe
Toluene	108-88-3	Liquid	IREA 23	0	0	11.1	37.6	Severe	
Toluene	108-88-3	Liquid	IREA 28	0.7	1	10.1	17.5	Nonsevere	
Toluene	108-88-3	Liquid	IREA 29	1	0	8	6	Nonsevere	
Trichloroacetic acid (30%)	76-03-9	Solution	IREA 26	4	4	*	*	Severe	Severe
Trichloroacetic acid (30%)	76-03-9	Solution	IREA 23	3	4	44	100.8	Severe	

Substance	CASRN	Form Tested	Testing Lab	Opacity		Swelling		In Vitro Irritancy Classification	Overall In Vitro Irritancy Classification
				1 Hr	4 Hr	1 Hr	4 Hr		
Trichloroacetic acid (30%)	76-03-9	Solution	IREA 28	3.7	3.7	*	*	Severe	
Trichloroacetic acid (30%)	76-03-9	Solution	IREA 29	3	3	4	54	Severe	
Trichloroacetic acid (3%)	76-03-9	Solution	IREA 26	0	1	6	6	Nonsevere	Nonsevere
Trichloroacetic acid (3%)	76-03-9	Solution	IREA 23	1	2	12.1	36.2	Severe	
Trichloroacetic acid (3%)	76-03-9	Solution	IREA 28	0.7	0	7.2	20.6	Nonsevere	
Trichloroacetic acid (3%)	76-03-9	Solution	IREA 29	1	0	7	11	Nonsevere	
Triton X-100 (10 %)	9002-93-1	Solution	IREA 26	2	3	8.8	19.2	Severe	Severe
Triton X-100 (10 %)	9002-93-1	Solution	IREA 23	0	2	24.2	32.6	Severe	
Triton X-100 (10 %)	9002-93-1	Solution	IREA 28	0	2	36.2	95.3	Severe	
Triton X-100 (10 %)	9002-93-1	Solution	IREA 29	0.67	2.3	39	80	Severe	
Triton X-100 (5 %)	9002-93-1	Solution	IREA 26	2	3	25.4	31.6	Severe	Severe
Triton X-100 (5 %)	9002-93-1	Solution	IREA 23	0	2	23.3	30.1	Severe	
Triton X-100 (5 %)	9002-93-1	Solution	IREA 28	0	1.3	10	25.2	Severe	
Triton X-100 (5 %)	9002-93-1	Solution	IREA 29	0.33	1.5	20	45	Severe	
Tween 20	9005-64-5	Liquid	IREA 26	0	0	12.6	15.1	Nonsevere	Nonsevere
Tween 20	9005-64-5	Liquid	IREA 23	0	1	28.1	29.6	Severe	
Tween 20	9005-64-5	Liquid	IREA 28	0	0	6.4	14.7	Nonsevere	
Tween 20	9005-64-5	Liquid	IREA 29	0	0	7	4	Nonsevere	