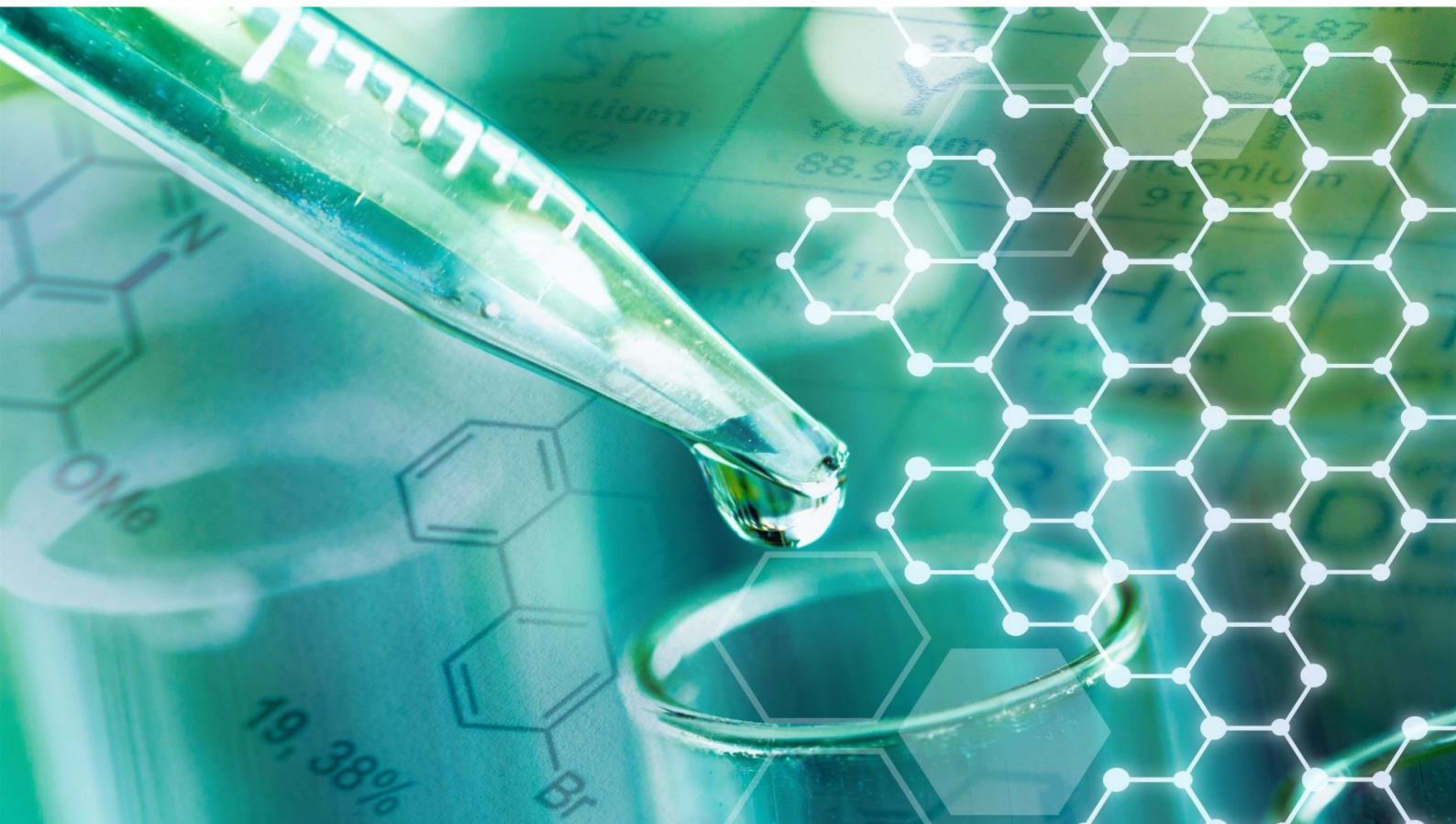




Supporting Document for Test Guideline 467 on Defined Approaches (DAs) for Serious Eye Damage and Eye Irritation for including a new DA for solids, Second Edition



**Supporting Document for Test Guideline 467
on Defined Approaches (DAs) for Serious
Eye Damage and Eye Irritation for including
a new DA for solids, Second Edition**

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Foreword

This document contains two new Annexes to the existing Annex of Supporting Document for Evaluation and Review of Test Guideline 467 (TG 467) on Defined Approaches (DAs) for Serious Eye Damage and Eye Irritation. The two new annexes were prepared to support the addition of a new DA on Solids (DAS) in TG 467 as following:

- Annex A.1: Spreadsheet with detailed Draize eye test data that were used for DAS.
- Annex A.2: Spreadsheet with the identification of the substances that were used in the training set and the test set of DAS and predictions of the individual test methods and DAS.

Annex 1.A.

- 1) Spreadsheet with detailed Draize eye test data that were used for DAS
- 2) Spreadsheet with the identification of the substances that were used in the training set and the test set of DAS and predictions of the individual test methods and DAS

DRD Study No.	Chemical Name	CAS RN	Organic Functional Groups	Physical Form as tested	Data Source	Number of Studies	GHS	Main Driver
19, 84	2-Benzyl-4-chlorophenol	120-32-1	Aryl halide Benzyl Phenol	S	NICEATM	2	Cat 1	CO mean ≥ 3 // CO pers D21
20	2-Hydroxy iso-butyric acid	594-61-6	Alcohol Carboxylic acid	S	ZEBET	1	Cat 1	CO mean ≥ 3
21	4,4'-(4,5,6,7-Tetrabromo-3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo	4430-25-5	Aromatic perhalogenocarbons Aryl halide Benzoxathiole S-oxide Phenol Sulfonate ester	S	EURL ECVAM	1	Cat 1	CO mean ≥ 3
22	4-([2-Sulphatoethyl] sulphonyl)-aniline	2494-89-5	Aniline Sulfate Sulfone	S	ZEBET	1	Cat 1	CO mean ≥ 3
23	4-(1,1,3,3-Tetramethylbutyl)phenol	140-66-9	Precursors quinoid compounds	S	NICEATM	1	Cat 1	CO mean ≥ 3
24	alpha-Ketoglutaric acid	328-50-7	Carboxylic acid Ketone Oxocarboxylic acid	S	ZEBET	1	Cat 1	CO mean ≥ 3
26, 27	Dibenzoyl-L-tartaric acid	2743-38-6	Aryl Carboxylic acid Carboxylic acid ester	S	ECETOC // LNS	2	Cat 1	CO mean ≥ 3
30, 89	Imidazole	288-32-4	Aryl Imidazole	S	ECETOC // LNS	2	Cat 1	CO mean ≥ 3 // CO pers D21
31, 32	Promethazine HCL	58-33-3	Aliphatic Amine, tertiary Phenothiazine	S	ECETOC // LNS	2	Cat 1	CO mean ≥ 3
81	1-Naphthalene acetic acid Na salt	61-31-4	Benzyl Carboxylic acid Fused carbocyclic aromatic Naphtalene	S	ECETOC	1	Cat 1	CO pers D21
86	3,4-Dichlorophenyl isocyanate	102-36-3	Aryl halide Isocyanate	S	NICEATM	1	Cat 1	CO pers D21
87	Acid Red 92 (Chemical name: 3,4,5,6-Tetrachloro-2-(1,4,5,8-tetrabromo	18472-87-2	Aromatic perhalogenocarbons Aryl halide Fused carbocyclic aromatic Fused saturated heter	S	NICEATM	1	Cat 1	CO pers D21
88	Captan 90-concentrate	133-06-2	Alkyl halide Allyl Sulfen amide Tetrahydrophthalimide	S	ECETOC	1	Cat 1	CO pers D21
90	Lauric acid	143-07-7	Carboxylic acid	S	ECETOC	1	Cat 1	CO pers D21
91	m-Phenylene diamine (neat)	108-45-2	Aminoaniline, meta	S	NICEATM	1	Cat 1	CO pers D21
94, 95	p-tert-Butylphenol	98-54-4	Phenol tert-Butyl	S	NICEATM	2	Cat 1	CO pers D21
100	Sodium perborate tetrahydrate	10486-00-7	N/A	S	ECETOC	1	Cat 1	CO pers D21
101	Sodium salicylate (neat)	54-21-7	Carboxylic acid Phenol	S	NICEATM	1	Cat 1	CO pers D21
116	3,4-Dimethyl-1H-pyrazole	2820-37-3	Allyl Aryl Pyrazole	S	EURL ECVAM	1	Cat 1	CO pers D21
120	Benzoic acid	65-85-0	Aryl Carboxylic acid	S	EURL ECVAM	1	Cat 1	CO pers D21
138	1,2,4-Triazole Na salt	41253-21-8	Aryl Triazole	S	ECETOC	1	Cat 1	CO = 4
139	1,2-Benzisothiazol-3(2H)-one	2634-33-5	Benzoisothiazole/ Benzoisothiazole	S	EURL ECVAM	1	Cat 1	CO = 4
140	1,3-Diiminobenz (f)-isoidoline	65558-69-2	Fused carbocyclic aromatic Iminoisoidole Iminolactams Naphtalene	S	NICEATM	1	Cat 1	CO = 4
146	beta-Resorcylic acid	89-86-1	Carboxylic acid Phenol	S	ZEBET	1	Cat 1	CO = 4
147	Chlorhexidine	55-56-1	Aryl halide Guanidine	S	ECETOC / ZEBET	1	Cat 1	CO = 4
148	Chlorophenacyl	6305-04-0	Alkyl halide Ketone Phenol	S	NICEATM	1	Cat 1	CO = 4
149	Granuform (Chemical name: Paraformaldehyde)	30525-89-4	Alcohol	S	ZEBET	1	Cat 1	CO = 4
150	N-(2-Methylphenyl)-iminodicarbonimidic diamide (1-(o-Tolyl)biguanide)	93-69-6	Aryl Guanidine	S	ZEBET	1	Cat 1	CO = 4
151	N-Acetyl-DL-methionine	1115-47-5	Carboxamide Sarcosine Sulfide	S	ZEBET	1	Cat 1	CO = 4
153	Sodium hydrogen sulphate	7681-38-1	N/A	S	ZEBET	1	Cat 1	CO = 4
156	Triethanolamine orthovanadate (neat)	13476-99-8	Diketone	S	NICEATM	1	Cat 1	CO = 4
190	(2R,3R)-3-((R)-1-(Tert-butylidimethylsiloxy)ethyl)-4-oxoazetidin-2-yl aceta	76855-69-1	Acetoxy AlkoxySilane Lactam tert-Butyl	S	EURL ECVAM	1	Cat 2	CO mean ≥ 1
191	3,3'-Dithiopropionic acid	1119-62-6	Carboxylic acid Disulfide	S	ECETOC	1	Cat 2	CO mean ≥ 1
192	4-Carboxybenzaldehyde	619-66-9	Aldehyde Aryl Carboxylic acid	S	ECETOC	1	Cat 2	CO mean ≥ 1
194	Dibenzyl phosphate	1623-08-1	Benzyl Phosphate ester	S	ECETOC	1	Cat 2	CO mean ≥ 1
196	gamma-(Aminocarbonyl)-N-methyl-N,N-bis(1-methylethyl)-gamma-pher	71-81-8	Ammonium salt Aryl Carboxamide Isopropyl	S	NICEATM	1	Cat 2	CO mean ≥ 1
211	1,3-bis-(2,4-Diaminophenoxy) propane tetrachloride	74918-21-1	Aminoaniline, meta Ether	S	EURL ECVAM	1	Cat 2	Conj mean ≥ 2
212	1,5-Naphthalenediol	83-56-7	Fused carbocyclic aromatic Naphtalene Phenol	S	EURL ECVAM	1	Cat 2	Conj mean ≥ 2
213	2-Amino-3-hydroxy pyridine	16867-03-1	Heterocyclic Phenol	S	EURL ECVAM	1	Cat 2	Conj mean ≥ 2
214	4-Amino-3-nitrophenol	610-81-1	Anilines Nitro Phenol	S	EURL ECVAM	1	Cat 2	CO mean ≥ 1
215	Ammonium nitrate	6484-52-2	Inorganic Salt	S	ECETOC	1	Cat 2	Conj mean ≥ 2
216	Sodium benzoate	532-32-1	Aryl Carboxylic acid	S	EURL ECVAM	1	Cat 2	Conj mean ≥ 2
229	2,6-Dichloro-5-fluoro-beta-oxo-3-pyridinepropanoate	96568-04-6	Aromatic heterocyclic halide Aryl halide Carboxylic acid ester Ketone	S	NICEATM	1	Cat 2	CO mean ≥ 1
238	1,4-Dibutoxybenzene	104-36-9	Alkoxy Aryl Ether	S	ZEBET	1	Cat 2	Conj mean ≥ 2
239	2-Hydroxy-1,4-naphthoquinone	83-72-7	Enol Naphthoquinone	S	EURL ECVAM	1	Cat 2	Conj mean ≥ 2
240	Camphene	79-92-5	Alkane, branched with tertiary carbon Alkene Bicycloheptane Bridged-ring carbocycles Cycl	S	ZEBET	1	Cat 2	Conj mean ≥ 2
241	m-Dinitrobenzene	99-65-0	Nitrobenzene	S	ZEBET	1	Cat 2	Conj mean ≥ 2
242	p-Nitrobenzoic acid	62-23-7	Carboxylic acid Nitrobenzene	S	ZEBET	1	Cat 2	Conj mean ≥ 2
243	Sodium monochloroacetate	3926-62-3	Alkyl halide Carboxylic acid	S	ZEBET	1	Cat 2	Conj mean ≥ 2
270	Iodosulphuron-methyl-sodium	144550-36-7	Aromatic heterocyclic halide Aryl Aryl halide Carboxylic acid ester Ether Sulfonamide Sulfon	S	EURL ECVAM	1	No Cat	CO > 0 **
271	Sodium bisulphite	7631-90-5	Inorganic Salt	S	ZEBET	1	No Cat	CO > 0 **
302	1-Phenyl-3-pyrazolidone	92-43-3	Aryl Pyrazolidinedione/ Pyrazolidone	S	LNS	1	No Cat	CO > 0
303	2,4-Dichloro-5-sulphamoyl-benzoic acid	2736-23-4	Aryl halide Carboxylic acid Sulfonamide	S	LNS	1	No Cat	CO > 0
308	Acrylamidopropyltrimonium chloride/acrylamide copolymer	75150-29-7	Acrylamide Ammonium salt	S	EURL ECVAM	1	No Cat	CO > 0
309	Betaine monohydrate	590-47-6	Ammonium salt Carboxylic acid	S	LNS	1	No Cat	CO > 0
312	DL-Glutamic acid	19285-83-7	Alpha amino acid Carboxylic acid	S	LNS	1	No Cat	CO > 0
313	Ethylenediaminetetraacetic acid dipotassium salt (EDTA di-K salt)	25102-12-9	Aliphatic Amine, tertiary Carboxylic acid	S	LNS	1	No Cat	CO > 0
314	Iminodibenzyl	494-19-9	Fused carbocyclic aromatic Fused saturated heterocycles Precursors quinoid compounds	S	LNS	1	No Cat	CO > 0

315	Magnesium carbonate	56378-72-4	N/A	S	LNS	1	No Cat	CO > 0
316	Propyl-4-hydroxybenzoate	94-13-3	Carboxylic acid ester Phenol	S	LNS	1	No Cat	CO > 0
324	N,N-Dimethyl guanidine sulphate	598-65-2	Aliphatic Amine, tertiary Amidine Guanidine	S	ECETOC	1	No Cat	CO = 0 **
503	[3-Chloro-4-[(3-fluorobenzoyloxy)phenyl](6-iodoquinazolin-4-yl)amine	231278-20-9	Aromatic amine Aryl Aryl halide Benzyl Ether Quinazoline	S	EURL ECVAM	1	No Cat	CO = 0
504	1,5-Di(2,4-dimethylphenyl)-3-methyl-1,3,5-triazapenta-1,4-diene	33089-61-1	Amidine Aryl	S	EURL ECVAM	1	No Cat	CO = 0
506	1H-Indole-2,3-dione	91-56-5	Cycloketone Indoline Lactams	S	NICEATM	1	No Cat	CO = 0
507	1-(4-Chlorophenyl)-3-(3,4-dichlorophenyl) urea	101-20-2	Aromatic heterocyclic halide Aryl halide Urea derivatives	S	EURL ECVAM	1	No Cat	CO = 0
508	1-(4-Phenyl-phenoxy)-(1,2,4-triazole-1)-3,3-dimethylbutan-2-ol	55179-31-2	Alcohol Alkane, branched with quaternary carbon Biphenyl Ether Hydrazone	S	NICEATM	1	No Cat	CO = 0
509	1-(9H-Carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]propan-2-ol	72956-09-3	Alcohol Aliphatic Amine, secondary Aryl Carbazole Ether	S	EURL ECVAM	1	No Cat	CO = 0
510	2',6'-8-Trifluoro-5-methoxy[1,2,4]triazolo[1,5-c]pyrimidine-2-sulphonanilid	145701-23-1	Amidine Aromatic heterocyclic halide Aryl halide Ether Sulfonamide	S	EURL ECVAM	1	No Cat	CO = 0
511	2,2'-[[3-Methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bis-ethanol	3179-89-3	Alcohol Aromatic amine Aryl Azo Nitrobenzene	S	EURL ECVAM	1	No Cat	CO = 0
513	2,2'-[6-(4-Methoxyphenyl)-1,3,5-triazine-2,4-diy]bis[5-[(2-ethylhexyl)oxy]-	187393-00-6	Alkoxy Aryl Ether Phenol Triazine	S	EURL ECVAM	1	No Cat	CO = 0
514	2,2'-Methylene-bis-(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)p	103597-45-1	Alkane branched with quaternary carbon Aryl Benzyl Fused carbocyclic aromatic Fused sat	S	EURL ECVAM	1	No Cat	CO = 0
515	2,3-Dimethyl-2,3-dinitrobutane	3964-18-9	Nitro aliphatic	S	NICEATM	1	No Cat	CO = 0
516	2,5,6-Triamino-4-pyrimidinol sulphate	1603-02-7	Aryl Pyrimidine Sulfate	S	EURL ECVAM	1	No Cat	CO = 0
517	2,6-Dihydroxy-3,4-dimethylpyridine	84540-47-6	Heterocyclic Phenol	S	EURL ECVAM	1	No Cat	CO = 0
519	2-(Diphenylacetyl)-1,3-indandione	82-66-6	Aryl Diketone Indandione	S	EURL ECVAM	1	No Cat	CO = 0
521	2-Aminophenol	95-55-6	Precursors quinoid compounds	S	LNS	1	No Cat	CO = 0
522	2-Anilino-4,6-dimethylpyrimidine	53112-28-0	Aromatic amine Aryl Pyrimidine	S	EURL ECVAM	1	No Cat	CO = 0
524	2-Mercaptopyrimidine	1450-85-7	Heterocyclic Thiophenol	S	LNS	1	No Cat	CO = 0
525	3,4-Dimethoxybenzaldehyde	120-14-9	Aldehyde Aryl Ether	S	NICEATM	1	No Cat	CO = 0
526	3,5-Dihydroxyacetophenone	51863-60-6	Ketone Phenol	S	ZEBET	1	No Cat	CO = 0
527	3H-Pyrazole-3-one, 2(4-aminophenyl),4-dihydro-5-(1-pyrrolindinyl)	30707-77-8	Amidine Aniline Pyrazolone Pyrrolidine Saturated heterocyclic amine Saturated heterocyclic	S	NICEATM	1	No Cat	CO = 0
528	3-((Benzylthio)methyl)-6-chloro-1,1-dioxide	91-33-8	Aryl Aryl halide Benzyl Sulfide Sulfonamide Unsaturated heterocyclic fragment	S	NICEATM	1	No Cat	CO = 0
529	3-(2-Chloro-thiazol-5-ylmethyl)-5-methyl[1,3,5]oxadiazinan-4-ylidene-N,N	153719-23-4	Allyl Aryl halide Guanidine Saturated heterocyclic fragment	S	EURL ECVAM	1	No Cat	CO = 0
531	4'-Aminoazobenzene-4-sulphonic acid	104-23-4	Aniline Aryl Azo Sulfonic acid	S	ZEBET	1	No Cat	CO = 0
532	4,4'-Methylene bis-(2,6-di-tert-butylphenol)	118-82-1	Benzyl Phenol tert-Butyl	S	ECETOC	1	No Cat	CO = 0
533	4,4'-Sulfonylbisbenzenamide	80-08-0	Dianilines Sulfone	S	NICEATM	1	No Cat	CO = 0
537	Aluminium hydroxide	21645-51-2	N/A	S	LNS	1	No Cat	CO = 0
540	Anthracene	120-12-7	Anthracene Fused carbocyclic aromatic	S	LNS	1	No Cat	CO = 0
541	Benzoflex S-312 (Chemical name: Neopentyl glycol dibenzoate)	4196-89-8	Alkane branched with quaternary carbon Aryl Carboxylic acid ester	S	NICEATM	1	No Cat	CO = 0
542	beta-(4-Chlorophenoxy)-alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-eth	55219-65-3	Alcohol Alkane branched with quaternary carbon Aryl Aryl halide Ether tert-Butyl Triazole	S	NICEATM	1	No Cat	CO = 0
547	Chlorpyrifos	2921-88-2	Alkoxy Aromatic heterocyclic halide Aryl halide Thiophosphate	S	NICEATM	1	No Cat	CO = 0
550	EPIKURE 1061	2716-10-1	N/A	S	NICEATM	1	No Cat	CO = 0
558	Gluconolactone	90-80-2	Dihydroxyl group Lactone Saturated heterocyclic fragment	S	LNS	1	No Cat	CO = 0
560	Hexamethylenetetraamine	100-97-0	Bridged-ring heterocycles Saturated heterocyclic amine Saturated heterocyclic fragment	S	ZEBET	1	No Cat	CO = 0
561	Hexyl 2-(1-(diethylaminohydroxyphenyl)methanoyl) benzoate	302776-68-7	Aromatic amine Aryl Carboxylic acid ester Ketone Phenol	S	EURL ECVAM	1	No Cat	CO = 0
562	Methyl p-hydroxybenzoate (neat)	99-76-3	Carboxylic acid ester Phenol	S	NICEATM	1	No Cat	CO = 0
563	Myristyl myristate	3234-85-3	Carboxylic acid ester	S	ECETOC	1	No Cat	CO = 0
565	Phenothiazine	92-84-2	Phenothiazine	S	NICEATM	1	No Cat	CO = 0
566	Phenylbutazone	50-33-9	Aryl Pyrazolidinedione/ Pyrazolidone	S	LNS	1	No Cat	CO = 0
568	Phenylthiourea	103-85-5	Aryl Thiourea derivatives	S	ZEBET	1	No Cat	CO = 0
570	Potassium tetrafluoroborate	14075-53-7	Inorganic Salt	S	ECETOC	1	No Cat	CO = 0
572	Silicic acid (neat)	1343-98-2	N/A	S	NICEATM	1	No Cat	CO = 0
573	Sodium tripolyphosphate (Grade E, anhydrous) (10 mg)	7758-29-4	N/A	S	NICEATM	1	No Cat	CO = 0
574, 677	Tetrabromobisphenol A	79-94-7	Aryl halide Phenol	S	NICEATM	2	No Cat	CO = 0
575	Theobromine	83-67-0	N/A	S	ZEBET	1	No Cat	CO = 0
577	Theophylline sodium acetate	8002-89-9	N/A	S	ZEBET	1	No Cat	CO = 0
579	Tris(2-ethylhexyl)-4,4',4''-(1,3,5-triazine-2,4,6-triyltriimino) tribenzoate	88122-99-0	Alkane, branched with tertiary carbon Aromatic amine Aryl Carboxylic acid ester Melamine	S	EURL ECVAM	1	No Cat	CO = 0
580	Trisodium mono-(5-(1,2-dihydroxyethyl)-4-oxido-2-oxo-2,5-dihydro-furan	66170-10-3	Dihydroxyl group Enol Furanone/ Furanondione Phosphate ester	S	EURL ECVAM	1	No Cat	CO = 0
581	Xanthinol nicotinate	437-74-1	Alcohol Aliphatic Amine, tertiary Aryl Carboxylic acid Fused unsaturated heterocycles Pyridi	S	ZEBET	1	No Cat	CO = 0

DRD Study No.	Chemical Name	CAS RN	GHS	Main Driver	Set	SkinEthic™	SkinEthic™	HCE	BCOP	BCOP	BCOP	DAS	DAS	DAS
						HCE EITS N studies	HCE EITS NPCM Proportion	No Cat. Proportion	LLBO N studies	LLBO Cat. 1 Proportion	LLBO Not Cat. 1 Proportion	Cat. 1 proportion	Cat. 2 proportion	No Cat. proportion
19, 84	2-Benzyl-4-chlorophenol	120-32-1	Cat 1	CO mean ≥ 3 // CO pers D21	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
20	2-Hydroxy iso-butyric acid	594-61-6	Cat 1	CO mean ≥ 3	Training	2	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
21	4,4'-(4,5,6,7-Tetrabromo-3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibrom	4430-25-5	Cat 1	CO mean ≥ 3	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
22	4-([2-Sulphatoethyl]sulphonyl)aniline	2494-89-5	Cat 1	CO mean ≥ 3	Test	1	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
23	4-(1,1,3,3-Tetramethylbutyl)phenol	140-66-9	Cat 1	CO mean ≥ 3	Training	11	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
24	alpha-Ketoglutaric acid	328-50-7	Cat 1	CO mean ≥ 3	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
26, 27	Dibenzoyl-L-tartaric acid	2743-38-6	Cat 1	CO mean ≥ 3	Training	2	1.000	0.000	5	1.000	0.000	1.000	0.000	0.000
30, 89	Imidazole	288-32-4	Cat 1	CO mean ≥ 3 // CO pers D21	Training	1	1.000	0.000	5	1.000	0.000	1.000	0.000	0.000
31, 32	Promethazine HCL	58-33-3	Cat 1	CO mean ≥ 3	Test	9	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
81	1-Naphthalene acetic acid Na salt	61-31-4	Cat 1	CO pers D21	Training	2	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
86	3,4-Dichlorophenyl isocyanate	102-36-3	Cat 1	CO pers D21	Test	3	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
87	3,4,5,6-Tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthene-9-yl	18472-87-2	Cat 1	CO pers D21	Test	3	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
88	Captan 90-concentrate	133-06-2	Cat 1	CO pers D21	Training	2	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
90	Lauric acid	143-07-7	Cat 1	CO pers D21	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
91	m-Phenylene diamine	108-45-2	Cat 1	CO pers D21	Training	2	1.000	0.000	2	0.500	0.500	0.500	0.500	0.000
94, 95	p-tert-Butylphenol	98-54-4	Cat 1	CO pers D21	Training	2	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
100	Sodium perborate tetrahydrate	10486-00-7	Cat 1	CO pers D21	Test	2	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
101	Sodium salicylate	54-21-7	Cat 1	CO pers D21	Training	2	1.000	0.000	2	0.500	0.500	0.500	0.500	0.000
116	3,4-Dimethyl-1H-pyrazole	2820-37-3	Cat 1	CO pers D21	Test	9	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
120	Benzoic acid	65-85-0	Cat 1	CO pers D21	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
138	1,2,4-Triazole Na salt	41253-21-8	Cat 1	CO = 4	Test	9	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
139	1,2-Benzisothiazol-3(2H)-one	2634-33-5	Cat 1	CO = 4	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
140	1,3-Diiminobenz (f)-isoidoline	65558-69-2	Cat 1	CO = 4	Test	1	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
146	beta-Resorcylic acid	89-86-1	Cat 1	CO = 4	Test	9	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
147	Chlorhexidine	55-56-1	Cat 1	CO = 4	Training	9	1.000	0.000	3	1.000	0.000	1.000	0.000	0.000
148	Chlorophenacyl	6305-04-0	Cat 1	CO = 4	Test	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
149	Granuform (Chemical name: Paraformaldehyde)	30525-89-4	Cat 1	CO = 4	Training	2	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
150	N-(2-Methylphenyl)-iminodicarbonimidic diamide (1-(o-Tolyl)biguanide)	93-69-6	Cat 1	CO = 4	Training	2	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
151	N-Acetyl-DL-methionine	1115-47-5	Cat 1	CO = 4	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
153	Sodium hydrogen sulphate	7681-38-1	Cat 1	CO = 4	Test	3	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
156	Triethanolamine orthovanadate	13476-99-8	Cat 1	CO = 4	Training	2	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
190	(2R,3R)-3-((R)-1-(Tert-butyltrimethylsilyloxy)ethyl)-4-oxoazetidin-2-yl acet	76855-69-1	Cat 2	CO mean ≥ 1	Training	11	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
191	3,3'-Dithiopropanoic acid	1119-62-6	Cat 2	CO mean ≥ 1	Training	11	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
192	4-Carboxybenzaldehyde	619-66-9	Cat 2	CO mean ≥ 1	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
194	Dibenzyl phosphate	1623-08-1	Cat 2	CO mean ≥ 1	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
196	gamma-(Aminocarbonyl)-N-methyl-N,N-bis(1-methylethyl)-gamma-ph	71-81-8	Cat 2	CO mean ≥ 1	Test	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
211	1,3-bis-(2,4-Diaminophenoxy) propane tetrachloride	74918-21-1	Cat 2	Conj mean ≥ 2	Test	3	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
212	1,5-Naphthalenediol	83-56-7	Cat 2	Conj mean ≥ 2	Training	11	0.636	0.364	2	0.500	0.500	0.318	0.318	0.364
213	2-Amino-3-hydroxy pyridine	16867-03-1	Cat 2	Conj mean ≥ 2	Training	11	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
214	4-Amino-3-nitrophenol	610-81-1	Cat 2	CO mean ≥ 1	Test	1	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
215	Ammonium nitrate	6484-52-2	Cat 2	Conj mean ≥ 2	Training	11	1.000	0.000	5	0.000	1.000	0.000	1.000	0.000
216	Sodium benzoate	532-32-1	Cat 2	Conj mean ≥ 2	Training	11	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
229	2,6-Dichloro-5-fluoro-beta-oxo-3-pyridinepropanoate	96568-04-6	Cat 2	CO mean ≥ 1	Training	5	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
238	1,4-Dibutoxybenzene	104-36-9	Cat 2	Conj mean ≥ 2	Test	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
239	2-Hydroxy-1,4-naphthoquinone	83-72-7	Cat 2	Conj mean ≥ 2	Training	11	1.000	0.000	2	1.000	0.000	1.000	0.000	0.000
240	Camphene	79-92-5	Cat 2	Conj mean ≥ 2	Test	11	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
241	m-Dinitrobenzene	99-65-0	Cat 2	Conj mean ≥ 2	Training	11	0.091	0.909	2	0.000	1.000	0.000	0.091	0.909
242	p-Nitrobenzoic acid	62-23-7	Cat 2	Conj mean ≥ 2	Training	11	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
243	Sodium monochloroacetate	3926-62-3	Cat 2	Conj mean ≥ 2	Test	11	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
270	Iodosulphuron-methyl-sodium	144550-36-7	No Cat	CO > 0 **	Test	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
271	Sodium bisulphite	7631-90-5	No Cat	CO > 0 **	Training	9	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
302	1-Phenyl-3-pyrazolidone	92-43-3	No Cat	CO > 0	Training	3	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
303	2,4-Dichloro-5-sulphamoyl-benzoic acid	2736-23-4	No Cat	CO > 0	Test	3	0.000	1.000	1	1.000	0.000	0.000	0.000	1.000

308	Acrylamidopropyltrimonium chloride/acrylamide copolymer	75150-29-7	No Cat	CO > 0	Test	3	0.000	1.000			0.000	0.000	1.000	
309	Betaine monohydrate	590-47-6	No Cat	CO > 0	Test	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
312	DL-Glutamic acid	19285-83-7	No Cat	CO > 0	Test	3	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
313	Ethylenediaminetetraacetic acid dipotassium salt (EDTA di-K salt)	25102-12-9	No Cat	CO > 0	Training	3	1.000	0.000	3	0.000	1.000	0.000	1.000	0.000
314	Iminodibenzyl	494-19-9	No Cat	CO > 0	Training	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
315	Magnesium carbonate	56378-72-4	No Cat	CO > 0	Training	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
316	Propyl-4-hydroxybenzoate	94-13-3	No Cat	CO > 0	Training	9	1.000	0.000	4	0.000	1.000	0.000	1.000	0.000
324	N,N-Dimethyl guanidine sulphate	598-65-2	No Cat	CO = 0 **	Test	9	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
503	[3-Chloro-4-[(3-fluorobenzoyloxy)phenyl](6-iodoquinazolin-4-yl)amine	231278-20-9	No Cat	CO = 0	Training	3	0.000	1.000				0.000	0.000	1.000
504	1,5-Di(2,4-dimethylphenyl)-3-methyl-1,3,5-triazapenta-1,4-diene	33089-61-1	No Cat	CO = 0	Training	9	0.556	0.444	1	0.000	1.000	0.000	0.556	0.444
506	1H-Indole-2,3-dione	91-56-5	No Cat	CO = 0	Training	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
507	1-(4-Chlorophenyl)-3-(3,4-dichlorophenyl) urea	101-20-2	No Cat	CO = 0	Test	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
508	1-(4-Phenyl-phenoxy)-1-(1,2,4-triazole-1)-3,3-dimethylbutan-2-ol	55179-31-2	No Cat	CO = 0	Training	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
509	1-(9H-Carbazol-4-yloxy)-3-[[2-(2-methoxyphenoxy)ethyl]amino]propan-	72956-09-3	No Cat	CO = 0	Training	10	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
510	2',6'-8-Trifluoro-5-methoxy[1,2,4]triazolo[1,5-c]pyrimidine-2-sulphonanil	145701-23-1	No Cat	CO = 0	Training	3	0.000	1.000				0.000	0.000	1.000
511	2,2'-[[3-Methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bis-ethanol	3179-89-3	No Cat	CO = 0	Test	3	0.000	1.000				0.000	0.000	1.000
513	2,2'-[6-(4-Methoxyphenyl)-1,3,5-triazine-2,4-diyl]bis[5-[(2-ethylhexyl)oxy	187393-00-6	No Cat	CO = 0	Training	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
514	2,2'-Methylene-bis-(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl	103597-45-1	No Cat	CO = 0	Training	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
515	2,3-Dimethyl-2,3-dinitrobutane	3964-18-9	No Cat	CO = 0	Training	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
516	2,5,6-Triamino-4-pyrimidinol sulphate	1603-02-7	No Cat	CO = 0	Training	9	0.444	0.556	2	0.000	1.000	0.000	0.444	0.556
517	2,6-Dihydroxy-3,4-dimethylpyridine	84540-47-6	No Cat	CO = 0	Training	9	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
519	2-(Diphenylacetyl)-1,3-indandione	82-66-6	No Cat	CO = 0	Test	1	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
521	2-Aminophenol	95-55-6	No Cat	CO = 0	Test	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
522	2-Anilino-4,6-dimethylpyrimidine	53112-28-0	No Cat	CO = 0	Test	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
524	2-Mercaptopyrimidine	1450-85-7	No Cat	CO = 0	Training	11	0.000	1.000	7	0.000	1.000	0.000	0.000	1.000
525	3,4-Dimethoxybenzaldehyde	120-14-9	No Cat	CO = 0	Test	9	1.000	0.000	1	1.000	0.000	1.000	0.000	0.000
526	3,5-Dihydroxyacetophenone	51863-60-6	No Cat	CO = 0	Training	1	1.000	0.000	2	0.000	1.000	0.000	1.000	0.000
527	3H-Pyrazole-3-one, 2(4-aminophenyl),4-dihydro-5-(1-pyrrolindinyl)	30707-77-8	No Cat	CO = 0	Training	3	0.000	1.000				0.000	0.000	1.000
528	3-((Benzylthio)methyl)-6-chloro-1,1-dioxide	91-33-8	No Cat	CO = 0	Training	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
529	3-(2-Chloro-thiazol-5-ylmethyl)-5-methyl[1,3,5]oxadiazinan-4-ylidene-N-	153719-23-4	No Cat	CO = 0	Test	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
531	4'-Aminoazobenzene-4-sulphonic acid	104-23-4	No Cat	CO = 0	Test	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
532	4,4'-Methylene-bis-(2,6-di-tert-butylphenol)	118-82-1	No Cat	CO = 0	Test	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
533	4,4'-Sulfonylbisbenzenamide	80-08-0	No Cat	CO = 0	Training	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
537	Aluminium hydroxide	21645-51-2	No Cat	CO = 0	Training	3	0.000	1.000	1	1.000	0.000	0.000	0.000	1.000
540	Anthracene	120-12-7	No Cat	CO = 0	Training	9	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
541	Benzoflex S-312 (Chemical name: Neopentyl glycol dibenzoate)	4196-89-8	No Cat	CO = 0	Training	1	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
542	beta-(4-Chlorophenoxy)-alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-e	55219-65-3	No Cat	CO = 0	Training	1	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
547	Chlorpyrifos	2921-88-2	No Cat	CO = 0	Training	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
550	EPIKURE 1061	2716-10-1	No Cat	CO = 0	Training	1	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
558	Gluconolactone	90-80-2	No Cat	CO = 0	Training	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
560	Hexamethylenetetraamine	100-97-0	No Cat	CO = 0	Training	3	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
561	Hexyl 2-(1-(diethylaminohydroxyphenyl)methanoyl) benzoate	302776-68-7	No Cat	CO = 0	Test	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
562	Methyl p-hydroxybenzoate	99-76-3	No Cat	CO = 0	Training	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
563	Myristyl myristate	3234-85-3	No Cat	CO = 0	Training	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
565	Phenothiazine	92-84-2	No Cat	CO = 0	Training	11	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
566	Phenylbutazone	50-33-9	No Cat	CO = 0	Training	9	0.000	1.000	3	0.000	1.000	0.000	0.000	1.000
568	Phenylthiourea	103-85-5	No Cat	CO = 0	Test	9	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
570	Potassium tetrafluoroborate	14075-53-7	No Cat	CO = 0	Training	11	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
572	Silicic acid	1343-98-2	No Cat	CO = 0	Training	11	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
573	Sodium tripolyphosphate (Grade E, anhydrous) (10 mg)	7758-29-4	No Cat	CO = 0	Test	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
574, 677	Tetrabromobisphenol A	79-94-7	No Cat	CO = 0	Training	2	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
575	Theobromine	83-67-0	No Cat	CO = 0	Training	11	0.000	1.000	2	0.000	1.000	0.000	0.000	1.000
577	Theophylline sodium acetate	8002-89-9	No Cat	CO = 0	Test	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
579	Tris(2-ethylhexyl)-4,4',4''-(1,3,5-triazine-2,4,6-triyltriamino) tribenzoate	88122-99-0	No Cat	CO = 0	Test	3	0.000	1.000	1	0.000	1.000	0.000	0.000	1.000
580	Trisodium mono-(5-(1,2-dihydroxyethyl)-4-oxido-2-oxo-2,5-dihydro-fura	66170-10-3	No Cat	CO = 0	Training	9	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000
581	Xanthinol nicotinate	437-74-1	No Cat	CO = 0	Test	1	1.000	0.000	1	0.000	1.000	0.000	1.000	0.000

Supporting Document for Test Guideline 467 on Defined Approaches (DAs) for Serious Eye Damage and Eye Irritation for including a new DA for solids, Second Edition

Series on Testing and Assessment

This Supporting Document has been developed to review and evaluate Defined Approaches (DAs) for Serious Eye Damage and Eye Irritation. Such DAs on serious eye damage and eye irritation, once positively evaluated, are included in Test Guideline 467. This is the second edition of the Supporting Document, augmented in 2024 with annexes providing supporting information on solid chemicals, after the original version that focused on liquid chemicals. This was a project on the work plan of the Test Guidelines Programme until 2024.