

REACH Nonuse Certificate of Substance of Very High Concern

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All products, materials, packing materials and associated production processes listed below are in compliance with Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and its latest revised version, Commission Regulation (EU) 2022/586. The materials and products provided do not contain the substances listed in the table below above the maximum allowable value.

Table1. Substance of Very High Concern (SVHC): 224 Substances Last updated: June 10, 2022

Substance name	EC No.	CAS No.
N-(hydroxymethyl)acrylamide	213-103-2	924-42-5
tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4
S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	253-242-6	1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1 852541-21-0
Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	310-154-3	210555-94-5 27459-10-5 27147-75-7 121158-58-5 74499-35-7 57427-55-1
Orthoboric acid, sodium salt (group)	215-604-1 237-560-2 238-253-6	1333-73-9 13840-56-7 25747-83-5 14890-53-0 22454-04-2 14312-40-4
Medium-chain chlorinated paraffins (MCCP)	287-477-0	85535-85-9 198840-65-2 1372804-76-6
glutaral	203-856-5	111-30-8
4,4'-(1-methylpropylidene)bisphenol	201-025-1	77-40-7
2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	201-289-8	75166-31-3 80-54-6 75166-30-2
2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-	221-967-7 202-480-9	1522-92-5 3296-90-0

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bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	253-057-0	96-13-9 36483-57-5
1,4-dioxane	204-661-8	123-91-1
Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	222-883-3 293-901-5	3648-18-8 91648-39-4
Bis(2-(2-methoxyethoxy)ethyl)ether	205-594-7	143-24-8
Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4
Butyl 4-hydroxybenzoate	202-318-7	94-26-8
2-methylimidazole	211-765-7	693-98-1
1-vinylimidazole	214-012-0	1072-63-5
Perfluorobutane sulfonic acid (PFBS) and its salts	206-793-1 269-513-7 249-616-3 432-660-4 452-310-4 468-770-4 478-340-8 444-440-5	375-73-5 68259-10-9 29420-49-3 25628-08-4 503155-89-3 220133-51-7 144317-44-2 507453-86-3 131651-65-5 220689-12-3
Diisohexyl phthalate	276-090-2	71850-09-4
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5
2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	247-759-6	3050-88-2 26523-78-4 31631-13-7 106599-06-8
4-tert-butylphenol	202-679-0	98-54-4
2-methoxyethyl acetate	203-772-9	110-49-6
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	236-236-8 266-578-3 218-173-8	62037-80-3 13252-13-6 67118-55-2 2062-98-8 75579-40-7 75579-39-4
Pyrene	204-927-3	129-00-0
Phenanthrene	201-581-5	85-01-8
Fluoranthene	205-912-4	206-44-0
Benzo[k]fluoranthene	205-916-6	207-08-9
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6

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1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
Terphenyl, hydrogenated	262-967-7	61788-32-7
Octamethylcyclotetrasiloxane	209-136-7	556-67-2
Lead	231-100-4	7439-92-1
Ethylenediamine	203-468-6	107-15-3
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6
Disodium octaborate	234-541-0	12008-41-2
Dicyclohexyl phthalate	201-545-9	84-61-7
Decamethylcyclopentasiloxane	208-764-9	541-02-6
Benzo[ghi]perylene	205-883-8	191-24-2
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	209-008-0	552-30-7
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	300-298-5	1471311-26-8 93925-00-9
Chrysene	205-923-4	218-01-9
Cadmium nitrate	233-710-6	10325-94-7
Cadmium hydroxide	244-168-5	21041-95-2
Cadmium carbonate	208-168-9	513-78-0
Benz[a]anthracene	200-280-6	56-55-3
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	236-948-9	135821-03-3 135821-74-8 13560-89-9
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	223-393-2 206-587-1 269-511-6 274-462-9	3871-99-6 355-46-4 68259-08-5 70225-16-0 92011-17-1 928049-42-7 70136-72-0 72033-41-1 1000597-52-3 108427-54-9 108427-55-0 1187817-57-7 189274-31-5 202189-84-2 213740-81-9 341035-71-0 341548-85-4 350836-93-0 41184-65-0 41242-12-0

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		421555-73-9 421555-74-0 425670-70-8 55120-77-9 1310480-24-0 1310480-27-3 1310480-28-4 1329995-45-0 1329995-69-8 144116-10-9 1462414-59-0 153443-35-7 911027-69-5 911027-68-4 910606-39-2 82382-12-5 866621-50-3
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	221-470-5 206-400-3	3830-45-3 3108-42-7 335-76-2
4-heptylphenol, branched and linear	276-743-1 217-862-0	72624-02-3 1987-50-4 911371-06-7 854904-93-1 911371-07-8 71945-81-8 857629-71-1 861010-65-3 854904-92-0 6465-74-3 6863-24-7 6465-71-0 911370-98-4 102570-52-5 1139800-98-8 100532-36-3 1824346-00-0 288864-02-8 30784-27-1 72861-06-4 861011-60-1 30784-32-8 30784-31-7 33104-11-9 37872-24-5
4,4'-isopropylidenediphenol	201-245-8	80-05-7
Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8
Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	4149-60-4 375-95-1 21049-39-8

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Nitrobenzene	202-716-0	98-95-3
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
1,3-propanesultone	214-317-9	1120-71-4
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]	413-720-9	117933-89-8 186309-28-4 676367-05-8 343934-04-3 676367-09-2 343934-05-4 676367-04-7 676367-08-1 676367-03-6 676367-07-0 676367-02-5 676367-06-9
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	272-013-1 271-094-0	68648-93-1 68515-51-5
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-
Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6
Cadmium fluoride	232-222-0	7790-79-6
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
Sodium peroxometaborate	231-556-4	7632-04-4
Sodium perborate, perboric acid, sodium salt	239-172-9 234-390-0	90568-23-3 125022-34-6 15120-21-5 11138-47-9 13517-20-9
Cadmium chloride	233-296-7	10108-64-2
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
Trixylyl phosphate	246-677-8	25155-23-1
Lead di(acetate)	206-104-4	301-04-2
Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-	217-710-3	1937-37-7

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2,7-disulphonate (C.I. Direct Black 38)		
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0
Dihexyl phthalate	201-559-5	84-75-3
Cadmium sulphide	215-147-8	1306-23-6
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
Dipentyl phthalate (DPP)	205-017-9	131-18-0
Cadmium oxide	215-146-2	1306-19-0
Cadmium	231-152-8	7440-43-9
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1
4-Nonylphenol, branched and linear, ethoxylated	243-816-4 230-770-5 248-743-1 500-209-1 500-045-0 500-024-6 247-555-7 247-816-5 500-315-8 939-975-0 687-832-3 248-293-6	68412-54-4 20427-84-3 7311-27-5 27942-27-4 14409-72-4 68412-54-4 26027-38-3 9016-45-9 37205-87-1 26264-02-8 26571-11-9 34166-38-6 127087-87-0 1119449-38-5 1119449-37-4 127087-87-0 9016-45-9 20636-48-0 27177-05-5 104-35-8 156609-10-8
Trilead dioxide phosphonate	235-252-2	12141-20-7
Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6
Tricosafuorododecanoic acid	206-203-2	307-55-1
Tetralead trioxide sulphate	235-380-9	12202-17-4
Tetraethyllead	201-075-4	78-00-2
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
Silicic acid, lead salt	234-363-3	11120-22-2
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	272-271-5	68784-75-8
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
Pentalead tetraoxide sulphate	235-067-7	12065-90-6

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Pentacosafuorotridecanoic acid	276-745-2	72629-94-8
Orange lead (lead tetroxide)	215-235-6	1314-41-6
o-toluidine	202-429-0	95-53-4
o-aminoazotoluene	202-591-2	97-56-3
n-pentyl-isopentylphthalate	-	776297-69-9
N-methylacetamide	201-182-6	79-16-3
N,N-dimethylformamide	200-679-5	68-12-2
Methyloxirane (Propylene oxide)	200-879-2	75-56-9
Methoxyacetic acid	210-894-6	625-45-6
Lead titanium zirconium oxide	235-727-4	12626-81-2
Lead titanium trioxide	235-038-9	12060-00-3
Lead oxide sulfate	234-853-7	12036-76-9
Lead monoxide (lead oxide)	215-267-0	1317-36-8
Lead dinitrate	233-245-9	10099-74-8
Lead cyanamidate	244-073-9	20837-86-9
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
Hexahydromethylphthalic anhydride	256-356-4 247-094-1 260-566-1 243-072-0	48122-14-1 25550-51-0 57110-29-9 19438-60-9
Heptacosafuorotetradecanoic acid	206-803-4	376-06-7
Henicosafuoroundecanoic acid	218-165-4	2058-94-8
Furan	203-727-3	110-00-9
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
Dioxobis(stearato)trilead	235-702-8	12578-12-0
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
Dimethyl sulphate	201-058-1	77-78-1
Diisopentyl phthalate	210-088-4	605-50-5
Diethyl sulphate	200-589-6	64-67-5
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3
Cyclohexane-1,2-dicarboxylic anhydride	201-604-9 236-086-3 238-009-9	85-42-7 13149-00-3 14166-21-3
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5

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Biphenyl-4-ylamine	202-177-1	92-67-1
Acetic acid, lead salt, basic	257-175-3	51404-69-4
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
4-Nonylphenol, branched and linear	250-339-5 241-427-4 203-199-4 257-907-1 247-770-6 284-325-5 246-672-0 234-284-4 291-844-0	30784-30-6 17404-66-9 104-40-5 52427-13-1 26543-97-5 186825-36-5 142731-63-3 84852-15-3 186825-39-8 25154-52-3 11066-49-2 521947-27-3 90481-04-2
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
4-aminoazobenzene	200-453-6	60-09-3
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	219-682-8	9036-19-5 9002-93-1 2497-59-8 2315-67-5 2315-61-9
4,4'-oxydianiline and its salts	202-977-0	101-80-4
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
1,2-diethoxyethane	211-076-1	629-14-1
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	284-032-2	84777-06-0
α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
Formamide	200-842-0	75-12-7
Diboron trioxide	215-125-8	1303-86-2
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9

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4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	423-400-0	59653-74-6
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-
Trilead diarsenate	222-979-5	3687-31-8
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
Phenolphthalein	201-004-7	77-09-8
Pentazinc chromate octahydroxide	256-418-0	49663-84-5
N,N-dimethylacetamide	204-826-4	127-19-5
Lead styphnate	239-290-0	15245-44-0
Lead dipicrate	229-335-2	6477-64-1
Lead diazide, Lead azide	236-542-1	13424-46-9
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4
Dichromium tris(chromate)	246-356-2	24613-89-6
Calcium arsenate	231-904-5	7778-44-1
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
Bis(2-methoxyethyl) ether	203-924-4	111-96-6
Arsenic acid	231-901-9	7778-39-4
Aluminosilicate Refractory Ceramic Fibres	-	142844-00-6
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9
2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
1,2-dichloroethane	203-458-1	107-06-2
Strontium chromate	232-142-6	7789-06-2
Hydrazine	206-114-9	302-01-2, 7803-57-8
2-ethoxyethyl acetate	203-839-2	111-15-9
1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4

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1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6
1,2,3-trichloropropane	202-486-1	96-18-4
Cobalt(II) sulphate	233-334-2	10124-43-3
Cobalt(II) dinitrate	233-402-1	10141-05-6
Cobalt(II) diacetate	200-755-8	71-48-7
Cobalt(II) carbonate	208-169-4	513-79-1
Chromium trioxide	215-607-8	1333-82-0
Acids generated from chromium trioxide and their oligomers	236-881-5 231-801-5	13530-68-2 7738-94-5
2-methoxyethanol	203-713-7	109-86-4
2-ethoxyethanol	203-804-1	110-80-5
Trichloroethylene	201-167-4	79-01-6
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
Sodium chromate	231-889-5	7775-11-3
Potassium dichromate	231-906-6	7778-50-9
Potassium chromate	232-140-5	7789-00-6
Disodium tetraborate, anhydrous	215-540-4	12179-04-3, 1303-96-4, 1330-43-4
Boric acid	234-343-4 233-139-2	11113-50-1 10043-35-3
Ammonium dichromate	232-143-1	7789-09-5
Acrylamide	201-173-7	79-06-1
Tris(2-chloroethyl) phosphate	204-118-5	115-96-8
Pitch, coal tar, high-temp.	266-028-2	65996-93-2
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
Lead chromate	231-846-0	7758-97-6
Diisobutyl phthalate	201-553-2	84-69-5
Anthracene oil, anthracene-low	292-604-8	90640-82-7
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene paste	292-603-2	90640-81-6
Anthracene oil	292-602-7	90640-80-5
2,4-dinitrotoluene	204-450-0	121-14-2

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Triethyl arsenate	427-700-2	15606-95-8
Sodium dichromate	234-190-3	10588-01-9, 7789-12-0
Lead hydrogen arsenate	232-064-2	7784-40-9
Hexabromocyclododecane (HBCDD)	247-148-4 221-695-9	134237-52-8 134237-51-7 25637-99-4 3194-55-6 134237-50-6
Dibutyl phthalate (DBP)	201-557-4	84-74-2
Diarsenic trioxide	215-481-4	1327-53-3
Diarsenic pentaoxide	215-116-9	1303-28-2
Cobalt dichloride	231-589-4	7646-79-9
Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
Anthracene	204-371-1	120-12-7
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9

Product	Description
WR2-24V-2U-B1	Klaran WR 2.0 lpm UVC Water Reactor

CJ Brownell
Authorized Signature / Date

9/21/2022

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