

INTERNATIONAL STANDARD

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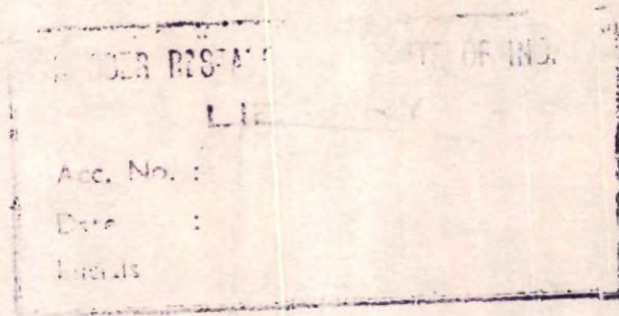
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Rubber compounding ingredients — Abbreviations

Ingrédients de mélange du caoutchouc — Abréviations



Reference number
ISO 6472:1994(E)



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 6472 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This second edition cancels and replaces the first edition (ISO 6472:1986), which has been technically revised. A major feature of this revision is the inclusion of IUPAC equivalent terms.

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International Organization for Standardization
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Rubber compounding ingredients — Abbreviations

1 Scope

This International Standard establishes unambiguous abbreviations for commonly used rubber compounding ingredients, other than polymers, derived from a consensus of world opinion.

2 Use of the symbols

2.1 The abbreviations are derived from common usage in industry and commerce rather than from any systematic nomenclature. The list is not intended to conflict with, but rather to act as a supplement to, existing tradenames and trademarks.

2.2 The first appearance of the symbols in texts shall be enclosed in parentheses and shall be preceded by the chemical name written in full.

2.3 The list does not purport to be comprehensive, and abbreviations for other compounding ingredients will be added in future revisions.

2.4 Two systems of abbreviations for some chemicals are recognized as being in widespread use. For example, in the system favoured by North America and some other countries, the dithiocarbamate group is denoted by the symbol "DC", whereas in the system prevailing in many European countries this group is denoted by the single letter "C", with "D" being used to signify dialkyl or diaryl substitution. Abbreviations derived from the latter system are given as alternatives. Where there are two, the first usually designates the North American, the second the European.

2.5 International Union of Pure and Applied Chemistry (IUPAC) nomenclature is provided where this is available, in addition to the commonly used chemical name or names. In cases where IUPAC nomenclature is not available due to uncertainty or ambiguity, an explanation is given in a note. Also, in some instances, alternative commonly used chemical names are given where they are recognized.

3 Accelerators and vulcanizing agents

BA	butyraldehyde-aniline condensate IUPAC: not possible
BiMDC; BiDMC	bismuth dimethyldithiocarbamate IUPAC: bismuth bis(dimethyldithiocarbamate)*
BQD; PBQD	<i>p</i> -benzoquinone dioxime IUPAC: same

CBS	<i>N</i> -cyclohexylbenzothiazole-2-sulfenamide; <i>N</i> -cyclohexylbenzothiazyl sulfenamide IUPAC: <i>N</i> -cyclohexyl-1,3-benzothiazole-2-sulfenamide
CdEDC; CdDEC	cadmium diethyldithiocarbamate IUPAC: cadmium bis(diethyldithiocarbamate)
CdMDC; CdDMC	cadmium dimethyldithiocarbamate IUPAC: cadmium bis(dimethyldithiocarbamate)
CuMDC; CuDMC	copper dimethyldithiocarbamate IUPAC: copper bis(dimethyldithiocarbamate)
DBA	dibenzylamine IUPAC: same
DBQD	<i>p,p'</i> -dibenzoyl- <i>p</i> -benzoquinone dioxime; quinone dioxime dibenzoate IUPAC: <i>p</i> -benzoquinone bis(<i>O</i> -benzoyloxime)
DBTU	1,3-dibutylthiourea IUPAC: 1,3-dibutyl-2-thiourea
DBXD	dibutylxanthogen disulfide IUPAC: <i>O,O</i> -dibutyl dithiobis(thioformate)
DCBS	<i>N,N</i> -dicyclohexylbenzothiazole-2-sulfenamide; <i>N,N</i> -dicyclohexylbenzothiazyl sulfenamide IUPAC: <i>N,N</i> -dicyclohexyl-1,3-benzothiazole-2-sulfenamide
DCP	dicumyl peroxide IUPAC: bis(1-methyl-1-phenylethyl) peroxide
DETU	1,3-diethylthiourea IUPAC: 1,3-diethyl-2-thiourea
DIBS	<i>N,N</i> -diisopropylbenzothiazole-2-sulfenamide; <i>N,N</i> -diisopropylbenzothiazyl sulfenamide IUPAC: <i>N,N</i> -diisopropyl-1,3-benzothiazole-2-sulfenamide
DOTG	di- <i>o</i> -tolylguanidine IUPAC: 1,3-di- <i>o</i> -tolylguanidine
DPG	diphenylguanidine IUPAC: 1,3-diphenylguanidine
DPTD	dipentamethylenethiuram disulfide IUPAC: bis[piperidino(thiocarbonyl)] disulfide
DPTH	dipentamethylenethiuram hexasulfide IUPAC: bis[piperidino(thiocarbonyl)] hexasulfide
DPTM	dipentamethylenethiuram monosulfide IUPAC: di(piperidine-1-carbothioic) thioanhydride

DPTT	dipentamethylenethiuram tetrasulfide IUPAC: bis[piperidino(thiocarbonyl)] tetrasulfide
DPTU	1,3-diphenylthiourea IUPAC: 1,3-diphenyl-2-thiourea
DTBP	di- <i>tert</i> -butyl peroxide IUPAC: same
DTDM	dithiodimorpholine IUPAC: 4-(morpholinodithio)morpholine
DTTU	1,3-di- <i>o</i> -tolylthiourea IUPAC: 1,3-di- <i>o</i> -tolyl-2-thiourea
EFA; ECFA	ethyl chloride, formaldehyde and ammonia reaction product IUPAC: not possible
EPTD	<i>N,N'</i> -diethyl- <i>N,N'</i> -diphenylthiuram disulfide IUPAC: same
ETU	ethylene thiourea IUPAC: imidazoline-2-thione
HMD	hexamethylenediamine IUPAC: same
HMT	hexamethylenetetramine IUPAC: 1,3,5,7-tetraazatricyclo[3.3.1.1 ^{3,7}]decane
LADC; LDAC	lead diamylthiocarbamate IUPAC: lead bis(dipentylthiocarbamate)
LMDC; LDMC	lead dimethylthiocarbamate IUPAC: lead bis(dimethylthiocarbamate)
MBDS; MDS	2-morpholinodithio-1,3-benzothiazole; 4-morpholino-2-benzothiazyl disulfide IUPAC: 2-morpholinodithio-1,3-benzothiazole
MBS	<i>N</i> -oxydiethylenebenzothiazole-2-sulfenamide; 2-morpholinothiobenzothiazole IUPAC: 2-morpholino-1,3-benzothiazole
MBT	2-mercaptobenzothiazole; 2-benzothiazolinethione IUPAC: 1,3-benzothiazole-2-thiol (enol form); 1,3-benzothiazole-2(3H)-thione (keto form)
MBTS	benzothiazole disulfide; benzothiazyl disulfide IUPAC: bis(1,3-benzothiazol-2-yl) disulfide

MPTD	<i>N,N'</i> -dimethyl- <i>N,N'</i> -diphenylthiuram disulfide IUPAC: same
OTBG	<i>o</i> -tolylbiguanide IUPAC: 1- <i>o</i> -tolylbiguanide
OTOS	<i>N</i> -oxydiethylene thiocarbamyl- <i>N'</i> -oxydiethylene sulfenamide IUPAC: 4-[morpholino(thiocarbonyl)thio]morpholine
PPDC	piperidinium pentamethylenedithiocarbamate; piperidine pentamethylenedithiocarbamate IUPAC: piperidinium piperidine-1-carbodithioate
SBDC; SDBC	sodium dibutyldithiocarbamate IUPAC: same
SEDC; SDEC	sodium diethyldithiocarbamate IUPAC: same
SeEDC; SeDEC	selenium diethyldithiocarbamate IUPAC: λ^4 -selenium tetrakis(diethyldithiocarbamate)
SeMDC; SeDMC	selenium dimethyldithiocarbamate IUPAC: λ^4 -selenium tetrakis(dimethyldithiocarbamate)
SIX	sodium isopropylxanthate IUPAC: sodium <i>O</i> -isopropyl dithiocarbonate
SMDC; SDMC	sodium dimethyldithiocarbamate IUPAC: same
TAC	triallylcyanurate IUPAC: 2,4,6-triallyloxy-1,3,5-triazine
TBBS	<i>N-tert</i> -butylbenzothiazole-2-sulfenamide; <i>N-tert</i> -butylbenzothiazyl sulfenamide IUPAC: <i>N-tert</i> -butyl-1,3-benzothiazole-2-sulfenamide
TBTD	tetrabutylthiuram disulfide IUPAC: same
TBTU	1,1,3-tributylthiourea IUPAC: 1,1,3-tributyl-2-thiourea
TeEDC; TeDEC	tellurium diethyldithiocarbamate IUPAC: λ^4 -tellurium tetrakis(diethyldithiocarbamate)
TETD	tetraethylthiuram disulfide IUPAC: same
TMTD	tetramethylthiuram disulfide IUPAC: same
TMTM	tetramethylthiuram monosulfide IUPAC: same

TU	thiourea IUPAC: 2-thiourea
ZBDC; ZDBC	zinc dibutyldithiocarbamate IUPAC: zinc bis(dibutyldithiocarbamate)
ZBeDC; ZDBeC	zinc dibenzylthiocarbamate IUPAC: zinc bis(dibenzylthiocarbamate)
ZBX	zinc butylxanthate IUPAC: zinc di- <i>O</i> -butyl bis(dithiocarbonate)
ZDBP	zinc dibutyldithiophosphate IUPAC: zinc bis(<i>O,O</i> -dibutyl phosphorodithioate)
ZEDC; ZDEC	zinc diethyldithiocarbamate IUPAC: zinc bis(diethyldithiocarbamate)
ZEPDC; ZEPC	zinc ethylphenylthiocarbamate IUPAC: zinc bis[ethyl(phenyl)dithiocarbamate]
ZEX	zinc ethylxanthate IUPAC: zinc di- <i>O</i> -ethyl bis(dithiocarbonate)
ZIX	zinc isopropylxanthate IUPAC: zinc di- <i>O</i> -isopropyl bis(dithiocarbonate)
ZMBT	zinc 2-mercaptobenzothiazole IUPAC: zinc bis(1,3-benzothiazole-2-thiolate)
ZMDC; ZDMC	zinc dimethyldithiocarbamate IUPAC: zinc bis(dimethyldithiocarbamate)
ZPMDC; ZPMC	zinc pentamethylenedithiocarbamate IUPAC: zinc bis(piperidine-1-carbodithioate)

4 Activators and process aids

DEA	diethanolamine IUPAC: 2,2'-iminodiethanol
DEG	diethylene glycol IUPAC: 2,2'-oxydiethanol
PEG	polyethylene glycol IUPAC: α -hydro- ω -hydroxypoly(oxyethylene)
PPG	polypropylene glycol IUPAC: α -hydro- ω -hydroxypoly(oxypropylene)
PVME	polyvinyl methyl ether IUPAC: poly(methoxyethylene)

SPP; SPCP	sodium pentachlorophenate IUPAC: sodium pentachlorophenoxide
TEA	triethanolamine IUPAC: 2,2',2''-nitrioltriethanol
ZEH	zinc 2-ethylhexanoate; zinc octanoate IUPAC: zinc bis(2-ethylhexanoate)

5 Antioxidants and antiozonants

AANA	aldol- α -naphthylamine IUPAC: not possible
ADPA	acetone-diphenylamine condensate IUPAC: not possible
APPD	<i>N</i> -alkyl- <i>N'</i> -phenyl- <i>p</i> -phenylenediamine IUPAC: not possible, generic name, not a single compound
BHT	2,6-di- <i>tert</i> -butyl-4-methylphenol; butylated hydroxytoluene IUPAC: 2,6-di- <i>tert</i> -butyl- <i>p</i> -cresol
BMPPD; 77PD	<i>N,N'</i> -bis(1,4-dimethylpentyl)- <i>p</i> -phenylenediamine IUPAC: same
CPPD	<i>N</i> -cyclohexyl- <i>N'</i> -phenyl- <i>p</i> -phenylenediamine IUPAC: same
DLTDP	dilauryl thiodipropionate IUPAC: didodecyl 3,3'-thiodipropionate
DMHPD	<i>N,N'</i> -bis(1-methylheptyl)- <i>p</i> -phenylenediamine IUPAC: same
DNPD	<i>N,N'</i> -di-2-naphthyl- <i>p</i> -phenylenediamine IUPAC: same
DOPD; 88PD	<i>N,N'</i> -dioctyl- <i>p</i> -phenylenediamine IUPAC: <i>N,N'</i> -bis(1-ethyl-3-methylpentyl)- <i>p</i> -phenylenediamine

NOTE 1 The specific octyl isomer is given in the IUPAC name, the use of which is encouraged in order to avoid confusion with the 1-methylheptyl isomer in DMHPD.

DPA	diphenylamine IUPAC: same
DPPD	<i>N,N'</i> -diphenyl- <i>p</i> -phenylenediamine IUPAC: same
DTPD	<i>N,N'</i> -ditolyl- <i>p</i> -phenylenediamine IUPAC: <i>N,N'</i> -di- <i>x</i> -tolyl- <i>p</i> -phenylenediamine, where <i>x</i> denotes <i>o</i> , <i>m</i> , <i>p</i> or mixture

EDTMQ; ETMQ	6-ethoxy-1,2-dihydro-2,2,4-trimethylquinoline IUPAC: same
IPPD	<i>N</i> -isopropyl- <i>N'</i> -phenyl- <i>p</i> -phenylenediamine IUPAC: same
MBI	2-mercaptobenzimidazole IUPAC: benzimidazole-2-thiol
MMBI	2-mercapto-4(or 5)-methylbenzimidazole IUPAC: 4-methylbenzimidazole-2-thiol or 5-methylbenzimidazole-2-thiol
NBC; NDBC	nickel dibutyldithiocarbamate IUPAC: nickel bis(dibutyldithiocarbamate)
ODPA	octylated diphenylamine IUPAC: not possible
OPPD; 8PPD	<i>N</i> -octyl- <i>N'</i> -phenyl- <i>p</i> -phenylenediamine IUPAC: <i>N</i> -(1-methylheptyl)- <i>N'</i> -phenyl- <i>p</i> -phenylenediamine
PANA; PAN	<i>N</i> -phenyl- α -naphthylamine IUPAC: <i>N</i> -(1-naphthyl)aniline
PBNA; PBN	<i>N</i> -phenyl- β -naphthylamine IUPAC: <i>N</i> -(2-naphthyl)aniline
PPDPA	<i>p</i> -isopropoxydiphenylamine IUPAC: 4-isopropoxy- <i>N</i> -phenylaniline
SDPA	styrenated diphenylamine IUPAC: not possible
SPH	styrenated phenol IUPAC: not possible
TMQ	polymerized 2,2,4-trimethyl-1,2-dihydroquinoline IUPAC: not possible
TNPP	tri(nonylphenyl) phosphite IUPAC: tris(<i>x</i> -nonylphenyl) phosphite, where <i>x</i> denotes <i>o</i> , <i>m</i> , <i>p</i> or mixture
ZMBI	zinc 2-mercaptobenzimidazole IUPAC: zinc bis(benzimidazole-2-thiolate)
ZMMBI	zinc 2-mercapto-4(or 5)-methylbenzimidazole IUPAC: zinc bis(4-methylbenzimidazole-2-thiolate) or zinc bis(5-methylbenzimidazole-2-thiolate)
6PPD	<i>N</i> -1,3-dimethylbutyl- <i>N'</i> -phenyl- <i>p</i> -phenylenediamine IUPAC: same
7PPD	<i>N</i> -1,4-dimethylpentyl- <i>N'</i> -phenyl- <i>p</i> -phenylenediamine IUPAC: same

6 Plasticizers

NOTES

- 2 Unless otherwise indicated, the alkyl groups are n-alkyl groups and the phthalates are esters of o-phthalic acid.
- 3 No letter is used in the symbols to indicate normal (n-) linear alcohols. For branched (iso-) alcohols, the additional letter I is used, with one exception: in view of worldwide usage of the letter O for 2-ethylhexyl (for example, in DOA and DOP), this practice is observed in this standard. Because of this dual usage, the application of the rule specified in 2.2 is most important.
- 4 The letter I designates iso-branched groups (for example DIOP).
- 5 For plasticizers based on di-esters of the same alcohol, the first letter of the symbol is D.
- 6 Mixtures of plasticizers are not considered in this International standard.
- 7 Several plasticizers having "iso" names indicating branched groups may consist of several isomers. For this reason, no single IUPAC name can describe the detailed chemical composition of each of these plasticizers.

BBP	benzyl butyl phthalate IUPAC: same
BOA	benzyl octyl adipate IUPAC: benzyl 2-ethylhexyl adipate
BOP	butyl octyl phthalate IUPAC: butyl 2-ethylhexyl phthalate
DBP	dibutyl phthalate IUPAC: same
DBS	dibutyl sebacate IUPAC: same
DEP	diethyl phthalate IUPAC: same
DIBA	diisobutyl adipate IUPAC: same
DIBP	diisobutyl phthalate IUPAC: same
DIDA	diisodecyl adipate IUPAC: (see note 7)
DIDP	diisodecyl phthalate IUPAC: (see note 7)
DIOA	diisooctyl adipate IUPAC: (see note 7)
DIOP	diisooctyl phthalate IUPAC: (see note 7)
DMP	dimethyl phthalate IUPAC: same

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Descriptors: rubber, ingredients, abbreviations.

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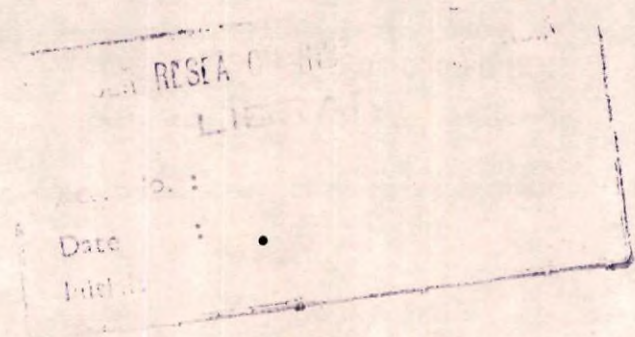
DMS	dimethyl sebacate IUPAC: same
DOA	dioctyl adipate IUPAC: bis(2-ethylhexyl) adipate
DOP	dioctyl phthalate IUPAC: bis(2-ethylhexyl) phthalate
DOS	dioctyl sebacate IUPAC: bis(2-ethylhexyl) sebacate
DPP	diphenyl phthalate IUPAC: same

7 Blowing agents

ADC	azodicarbonamide IUPAC: C,C'-azodi(formamide)
BDSH	benzene-1,3-disulfonylhydrazide IUPAC: benzene-1,3-di(sulfonohydrazide)
BSH	benzene sulfonylhydrazide IUPAC: benzenesulfonohydrazide
DNPT	dinitrosopentamethylenetetramine IUPAC: 3,7-dinitroso-1,3,5,7-tetraazabicyclo[3.3.1]nonane

8 Retarders of vulcanization

CTP	N-cyclohexylthiophthalimide IUPAC: N-(cyclohexylthio)phthalimide
HITM	hexaisopropylthiomelamine IUPAC: hexakis(isopropylthio)-1,3,5-triazine-2,4,6-triamine
NDPA	N-nitrosodiphenylamine IUPAC: same



INTERNATIONAL STANDARD

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AMENDMENT 1
1999-04-01

Rubber compounding ingredients — Abbreviations

AMENDMENT 1: New materials

Ingrédients de mélange du caoutchouc — Abréviations

AMENDEMENT 1: Nouveaux matériaux



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Rubber compounding ingredients — Abbreviations

AMENDMENT 1: New materials

1 Accelerators

HMDC hexamethylenediamine carbamate

IUPAC: 6-ammoniohexyl carbamate

NOTE HMDC is a synthetic rubber accelerator.

HMMA *N,N'*-hexamethylene-bis-methacrylamide

IUPAC: *N,N'*-hexamethylenedimethacrylamide

NOTE HMMA is a peroxide coagent, etc.

MBOCA 4,4'-methylene-bis(*o*-chloroaniline)

IUPAC: 2,2'-dichloro-4,4'-methylenedianiline

NOTE MBOCA is a curative and polyurethane-chain extender.

MPBM *N,N'*-*m*-phenylene-bis-maleimide

IUPAC: *N,N'*-*m*-phenylenedimaleimide

MTT 3-methylthiazolidine-thione-2

IUPAC: 3-methylthiazolidine-2-thione

NOTE MTT is a curative for chloroprene rubber and chlorobutyl rubber.

TAIC triallyl isocyanurate

IUPAC: 1,3,5-triallyl-1,3,5-triazine-2,4,6-trione

TBzTD tetrabenzylthiuram disulfide

IUPAC: same

TESPT bis(3-triethoxysilylpropyl) tetrasulfide

IUPAC: bis[3-(triethoxysilyl)propyl]tetrasulfide

NOTE TESPT is also a silane-coupling agent.

TIBTD	tetraisobutylthiuram disulfide IUPAC: same
TMPTM	trimethylol propane trimethacrylate IUPAC: 2-ethyl-2-(methacryloyloxymethyl)trimethylene dimethacrylate
NOTE	TMPTM is a peroxide coagent.
ZnDNC	zinc dinonyldithiocarbamate IUPAC: zinc bis(dinonyldithiocarbamate)

2 Antidegradants

BHA	butyl hydroxyanisole IUPAC: a mixture of 2- <i>tert</i> -butyl-4-hydroxyanisole and 3- <i>tert</i> -butyl-4-hydroxyanisole
DAHQ	2,5-di- <i>tert</i> -amylhydroquinone IUPAC: 2,5-di- <i>tert</i> -pentylhydroquinone
DBHQ	2,5-di- <i>tert</i> -butylhydroquinone IUPAC: same

3 Isocyanates

NOTE These isocyanates are not added to rubber as compounding ingredients although some dimerized and polymerized versions are used for this purpose. The abbreviations shown are included

- a) in recognition of their use (some more so than others) in the preparation of polyurethane rubbers;
- b) to discourage the adoption of these symbols for other compounding ingredients.

CHDI	1,4-cyclohexane diisocyanate IUPAC: cyclohex-1,4-ylene diisocyanate
HDI	1,6-hexamethylene diisocyanate IUPAC: hexamethylene diisocyanate
HMDI	4,4'-dicyclohexylmethane diisocyanate IUPAC: methylenedicyclohex-1,4-ylene diisocyanate
IPDI	isophorone diisocyanate IUPAC: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
MDI	4,4'-diphenylmethane diisocyanate IUPAC: methylenedi- <i>p</i> -phenylene diisocyanate

NDI	naphthalene-1,5-diisocyanate IUPAC: naphthalene-1,5-diyl diisocyanate
PMPPI	polymethylene polyphenyl isocyanate IUPAC: α -(isocyanatophenyl)methyl- ω -isocyanatophenyl poly[(isocyanatophenylene)methylene]
PPDI	<i>p</i> -phenylene diisocyanate IUPAC: same
TDI	toluene diisocyanate IUPAC: <i>x</i> -methyl- <i>y</i> -phenylene diisocyanate, where <i>x</i> is a number and <i>y</i> denotes <i>o</i> , <i>m</i> or <i>p</i>
TIPT	tris(<i>p</i> -isocyanatophenyl) thiophosphate IUPAC: same
TMDI	2,2,4- and 2,4,4-trimethyl hexamethylene diisocyanate IUPAC: 2,2,4-trimethylhexamethylene diisocyanate and 2,4,4-trimethylhexamethylene diisocyanate
TMXDI	<i>m</i> -tetramethylxylylene diisocyanate IUPAC: 1,3-bis(2-isocyanatopropan-2-yl)benzene
TTI	4,4'4''-triphenylmethane triisocyanate IUPAC: methyldynetris(<i>p</i> -phenylene) triisocyanate

4 Peroxides

BPO	benzoyl peroxide dibenzoyl peroxide IUPAC: dibenzoyl peroxide
BPV	<i>n</i> -butyl bis(4,4- <i>tert</i> -butyl peroxy) valerate 3,3-bis(<i>tert</i> -butyl peroxy) butane carboxylic acid <i>n</i> -butyl ester • IUPAC: butyl 4,4-bis(<i>tert</i> -butyldioxy) valerate
DBPC	1,1-bis(<i>tert</i> -butyl peroxy)-3,5,5-trimethylcyclohexane 1,3,3-trimethyl-5,5-di- <i>tert</i> -butyl peroxy cyclohexane IUPAC: di- <i>tert</i> -butyl 3,3,5-trimethylcyclohexylidene diperoxide

DCBP	2,4-dichlorobenzoyl peroxide
	bis(2,4-dichlorobenzoyl) peroxide
	IUPAC: bis(2,4-dichlorobenzoyl) peroxide
DMBHa	2,5-dimethyl-2,5-di-(<i>tert</i> -butyl peroxy) hexane
	2,5-di-(<i>tert</i> -butyl peroxy)-2,5-dimethylhexane
	IUPAC: di- <i>tert</i> -butyl 1,1,4,4-tetramethyltetramethylene diperoxide
DMBPhy	2,5-dimethyl-2,5-di-(<i>tert</i> -butyl peroxy) hexyne-3
	2,5-di- <i>tert</i> -butyl peroxy-2,5-dimethylhexyne-3
	IUPAC: di- <i>tert</i> -butyl 1,1,4,4-tetramethylbut-2-ynylene diperoxide
EBPB	ethyl-3,3-bis(<i>tert</i> -butyl peroxy) butyrate
	IUPAC: ethyl 3,3-bis(<i>tert</i> -butyldioxy)butyrate
MBPP	4-methyl-2,2-bis(<i>tert</i> -butyl peroxy) pentane
	IUPAC: di- <i>tert</i> -butyl 1,3-dimethylbutylidene diperoxide
TBCP	<i>tert</i> -butyl cumyl peroxide
	<i>tert</i> -butyl peroxy isopropyl benzene
	IUPAC: <i>tert</i> -butyl 1-methyl-1-phenylethyl peroxide
TBPB	<i>tert</i> -butyl perbenzoate
	IUPAC: same

5 Plasticizers and softeners

DOTP	dioctyl terephthalate
	bis(2-ethylhexyl) terephthalate
	IUPAC: bis(2-ethylhexyl) terephthalate
DOZ	dioctyl azelate
	bis(2-ethylhexyl) azelate
	IUPAC: bis(2-ethylhexyl) azelate
DUP	diundecyl phthalate
	IUPAC: same
ELO	epoxidized linseed oil
	IUPAC: not applicable

ESO	epoxidized soya bean oil IUPAC: not applicable
ODA	octyl decyl adipate IUPAC: decyl octyl adipate
TCEF	trichloroethyl phosphate IUPAC: tris(2-chloroethyl) orthophosphate
TCP	tricresyl phosphate IUPAC: tri- <i>x</i> -tolyl orthophosphate, where <i>x</i> denotes <i>o</i> , <i>m</i> , <i>p</i> or mixture
TOF	trioctyl phosphate tri-(2-ethylhexyl) orthophosphate IUPAC: tris(2-ethylhexyl) orthophosphate
TOTM	trioctyl trimellitate tri-(2-ethylhexyl) trimellitate IUPAC: tris(2-ethylhexyl) benzene-1,2,4-tricarboxylate

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