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RUBBER CHEMICALS

GRATING SPECTRA

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Volume 1

J1K - J300K

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RUBBER CHEMICALS

GRATING SPECTRA

This collection contains 600 grating infrared absorption spectra of commercially available materials used as compounding ingredients in rubber processing.

The spectrograms have been prepared on a Perkin-Elmer 521 grating spectrophotometer which gives transmittance vs. linear frequency (wave number) presentation. The spectra were determined in the spectral region 4000 cm^{-1} to 250 cm^{-1} (2.5 to 40 microns) with two grating changes: first order at 1997 cm^{-1} to 1992 cm^{-1} and second order at 634 cm^{-1} to 632 cm^{-1} . The stray light filters incorporated in the instrument are at approximately 3138 cm^{-1} , 2490 cm^{-1} , 1520 cm^{-1} , 1130 cm^{-1} and 390 cm^{-1} . Each spectrum is labelled with the trade name of the product, the chemical description, pertinent physical data, the supplier of the sample, and the method of sample preparation. With the exception of emulsified products, all materials have been examined in the "as received" form; emulsions were dried before being scanned.

It will be noted that products containing the same active ingredient, but of different trade names, have been included in this catalog. These materials have been supplied by various manufacturers and differ only in that sense.

An alphabetical index and a usage classification index are supplied with the collection, they are described in detail in the preface to the indices.

Representative products from this collection have also been scanned on a Beckman IR-4 prism spectrophotometer and published in a catalog of grating spectra.

We acknowledge the continuing cooperation of manufacturers in supplying samples for inclusion in this catalog of reference spectra.

SADTLER COMMERCIAL INFRARED SPECTRA

RUBBER CHEMICALS

INDICES

The following indices refer to the publications of 750 prism absorption spectra and 600 grating spectra of Rubber Chemicals.

The alphabetical index lists the products according to trade name with the corresponding spectrum numbers, prism and grating, chemical name cross-references are also included when they are designated by the manufacturer.

The classification index, a scheme of arranging the spectra, has been devised through several years of experience in using the catalog for practical studies. Its purpose is to establish an orderly arrangement of those spectra exhibiting similar overall curves. It is especially useful in respect to the characterization of "unknown" samples. It is possible, if the user so desires, to separate and file the spectra of similar materials in numerical sequence under the various group headings and still rapidly locate the spectrum of a given product by trade name. The titles, subtitles and corresponding code numbers for the various classes are shown below.

The code number in the column to the left of the spectrum numbers in each index is an arbitrarily assigned manufacturers code. Our index of manufacturers is updated annually and published with the Composite Alphabetical Index.

CLASSIFICATION SCHEME

012	Thiazole Accelerators	150	Peptizers
014	Dithiocarbamate Accelerators	170	Processing Aids
016	Thiuram Sulfide Accelerators	190	Tackifiers
018	Guanidine Accelerators	210	Non-Black Fillers and Reinforcers
020	Thiourea Accelerators	230	Blowing Agents and Promoters
022	Aldehyde-Amine Accelerators	270	Modifiers, Extenders, Terminators
028	Other Accelerators	290	Reclaiming Materials
030	Activators	450	Latex Antifoam Agents
050	Retarders, Scorch Preventers	490	Latex Dispersing Agents
070	Vulcanizing and Curing Agents	530	Latex Stabilizers
090	Antioxidants, Antiozonants, Inhibitors	550	Latex Thickeners
110	Stabilizers	560	Odorants
130	Plasticizers and Softeners	570	Miscellaneous

SADTLER COMMERCIAL SPECTRA

RUBBER CHEMICALS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
020	A- 1	6540	J 295K	J 207
022	A- 32	6540		J 211
022	A-100 ACCELERATOR	6540	J 157K	J 215
022	ACCELERATOR 8	2570	J 234K	J 123
018	ACCELERATOR 49	160	J 279K	J 234
016	ACCELERATOR B	6540	J 345K	J 380
028	ACCELERATOR 108	9180	J 530K	J 619
028	ACCELERATOR 30	32	J 599K	J 676
028	ACCELERATOR 40	32		J 677
014	ACCELERATOR 552	2570	J 272K	J 121
014	ACCELERATOR 552	2570	J 272K	J 121
022	ACCELERATOR 808	2570	J 492K	J 129
022	ACCELERATOR 833	2570	J 377K	J 344
130	ACINTGL D29LR	340	J 52K	J 502
012	ACRIN ACCELERATOR	2570		J 8
090	ACRYLIC ACID, 2-CYANO-3,3-DI-PHENYL-, ETHYL ESTER	3400		J 147
550	ACRYSOL G-110 LATEX THICKENER	7810	J 202K	J 35
070	ACTIVATOR R CURING AID	3910	J 2K	J 452
090	AGERITE ALBA ANTIOXIDANT	9220	J 188K	J 68
090	AGERITE DPPD ANTIOXIDANT	9220	J 219K	J 71
090	AGERITE GEL	9220		J 366
090	AGERITE GELTROL	9220	J 397K	J 367
090	AGERITE HIPAR	9220	J 513K	J 364
090	AGERITE HP ANTIOXIDANT	9220		J 87
090	AGERITE ISG ANTIOXIDANT	9220	J 228K	J 93
090	AGERITE POWDER ANTIOXIDANT	9220	J 227K	J 92
090	AGERITE RESIN ANTIOXIDANT	9220	J 186K	J 75
090	AGERITE RESIN D ANTIOXIDANT	9220	J 220K	J 72
090	AGERITE SPAR ANTIOXIDANT	9220	J 174K	J 98
090	AGERITE STALITE ANTIOXIDANT	9220	J 206K	J 18
090	AGERITE STALITE S ANTIOXIDANT	9220	J 226K	J 89
090	AGERITE SUPERFLEX ANTIOXIDANT	9220	J 181K	J 84
090	AGERITE SUPERLITE	9220	J 399K	J 365
090	AGERITE WHITE ANTIOXIDANT	9220	J 184K	J 80
190	AIRCOFLEX 400 ADHESIVE BASE	80	J 129K	J 579
570	AIROUT SILICONE & TALLATE	4767		J 678
170	AKRO-GEL MOLD LUBRICANT	32	J 589K	J 667
090	AKROFLEX C ANTIOXIDANT	2570	J 425K	J 388
090	AKROFLEX CD ANTIOXIDANT	2570	J 426K	J 387
028	AKTONE	4460		J 327
090	ALDO A-NAPHTHYLAMINE	27	J 120K	J 570
210	ALLIED WHITING FILLER	32	J 260K	J 102
550	ALPHAPRENE A100	7630	J 591K	J 669
012	ALTAX ACCELERATOR	9220	J 175K	J 96
012	ALTAX DUSTLESS ACCELERATOR	9220	J 254K	J 91
012	ALTAX RODFORM ACCELERATOR	9220	J 176K	J 95
012	AMAX ACCELERATOR	9220	J 187K	J 73
012	AMAX NO. 1	9220		J 362
090	AMINOX ANTIOXIDANT	6770	J 314K	J 260
090	AMOCO 533 ANTIOXIDANT	190	J 436K	J 264
270	ANILINE, N,4-DINITROSO-N-METHYL-, /33 PER CENT/	6540	J 210K	J 32
070	ANILINE, 4,4'-METHYLENEBIS/2-CHLORO-	2570	J 326K	J 302
090	ANILINE, 4,4'-METHYLENEDI-	6770		J 244
090	ANTIMONY OXIDE	3980	J 91K	J 541
450	ANTIMUSSOL WL ANTIFOAMING AGENT	8001	J 162K	J 210
090	ANTIOXIDANT CAO-5	1490		J 28
090	ANTIOXIDANT CAO-6	1490	J 336K	J 442
090	ANTIOXIDANT 431	9180	J 532K	J 620
090	ANTIOXIDANT 439	9180		J 679
090	ANTIOXIDANT 555 BLOCKED PHENOL	7330		J 680
090	ANTOX ANTIOXIDANT	2570		J 17
090	ANTOZITE MPD	9220	J 13K	J 463
090	ANTOZITE 1	9220	J 29K	J 479
090	ANTOZITE 2	9220	J 14K	J 464
090	ANTOZITE 67 ANTIOZONANT	9220	J 121K	J 571
570	ANULLEX PBH	7169		J 681
530	AQUAREX ME	2570		J 444
090	ARANOX ANTIOXIDANT	6770	J 276K	J 246
014	ARAZATE ACCELERATOR	6770	J 264K	J 254
190	ARIZONA TACKIFIER 27	340	J 24K	J 474
190	ARIZONA TACKIFIER 27-DLC	340	J 124K	J 574
530	ARMEEN DMHTD AMINE	260		J 682
110	ARMEEN N-CMD	260		J 683
170	AROSURF RA-13 MOLD RELEASE	240	J 598K	J 675
210	ASP-102 FILLER	6467		J 170

SADTLER COMMERCIAL SPECTRA

RUBBER CHEMICALS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
210	ASP-602 FILLER	6467		J 171
270	ATLANITE MINERAL RUBBER	7865	J 574K	J 653
130	AZELAIC ACID, DIISOBUTYL ESTER	3880	J 381K	J 338
230	AZODICARBONAMIDE M	10	J 21K	J 471
230	AZODICARBONAMIDE SM	10	J 20K	J 470
014	B.T.N. ACCELERATOR	1521	J 43K	J 493
230	B-I-K BLOWING PROMOTER	6770	J 342K	J 262
090	B-L-E 25 ANTIOXIDANT	6770	J 288K	J 257
110	BAR-O-SIL CHEMICAL STABILIZER	6720	J 297K	J 176
030	BARAK	2570	J 476K	J 132
030	BARAK ACTIVATOR	2570	J 476K	J 132
130	BARDOL B	120	J 434K	J 306
130	BEARFLEX LPO	3535	J 422K	J 394
130	BEARFLEX MPO PLASTICIZER	3535	J 412K	J 300
130	BEARFLEX 1762	3535	J 415K	J 406
150	BENZANILIDE, 2,2*-DITHIOBIS-	160	J 289K	J 233
150	BENZENETHIOL, PENTACHLORO-	2570	J 242K	J 136
070	BENZIDINE, DICHLORO-, DIHYDRO- CHLORIDE	9130	J 36K	J 486
070	BENZIDINE, 3,3*-DICHLORO-	1480	J 553K	J 117
012	BENZOIC ACID, THIO-, S-/2- BENZOTHAZOLYL/ ESTER	6540		J 14
090	BENZOPHENONE, 2-HYDROXY-4- METHOXY-	3410	J 325K	J 314
090	BENZOPHENONE, 2,2*-DIHYDROXY- 4,4*-DIMETHOXY-	3400		J 146
090	BENZOPHENONE, 2,2*-DIHYDROXY-4- METHOXY-	160	J 304K	J 449
090	BENZOPHENONE, 2,2*,4,4*-TETRA- HYDROXY-	3410	J 333K	J 313
090	BENZOPHENONE, 4-DODECYLOXY-2- HYDROXY-	8950	J 105K	J 555
070	P-BENZOQUINONE, BIS/O-BENZOYL- OXIME/	6770	J 296K	J 245
070	P-BENZOQUINONE, DIOXIME	6770	J 281K	J 247
070	P-BENZOQUINONE, DIOXIME	2570	J 30K	J 480
070	P-BENZOQUINONE, TETRACHLORO-	6770	J 317K	J 249
012	BENZOTHAZOLE, MERCAPTO-, ZINC DERIVATIVE	2570	J 38K	J 488
012	2-BENZOTHAZOLE, N-CYCLOHEXYL-,	9220	J 112K	J 562
012	BENZOTHAZOLE, 2-//2,6-DI- METHYLMORPHOLINO/THIO/-,	6540	J 267K	J 223
012	BENZOTHAZOLE, 2-/MORPHOLINO- THIO/-,	6540	J 307K	J 321
012	BENZOTHAZOLE, 2-/MORPHOLINO- THIO/-,	9220	J 187K	J 73
012	BENZOTHAZOLE, 2-/MORPHOLINO- THIO/-,	160	J 262K	J 229
012	BENZOTHAZOLE, 2-/MORPHOLINO- THIO/-,	6540	J 511K	J 602
012	BENZOTHAZOLE, 2-MERCAPTO-, ZINC DERIVATIVE	70		J 750
012	BENZOTHAZOLE, 2-MERCAPTO-, ZINC SALT	160	J 142K	J 592
012	BENZOTHAZOLE, 2,2*-DITHIO- BIS-	6540	J 208K	J 13
012	BENZOTHAZOLE, 2,2*-DITHIO- BIS-	9220	J 176K	J 95
012	BENZOTHAZOLE, 2,2*-DITHIO- BIS-	9220	J 175K	J 96
012	BENZOTHAZOLE, 2,2*-DITHIO- BIS-	9220	J 254K	J 91
012	BENZOTHAZOLE, 2,2*-DITHIO- BIS-	2570	J 233K	J 122
012	2-BENZOTHAZOLESULFENAMIDE, N- CYCLOHEXYL-,	160	J 485K	J 290
012	2-BENZOTHAZOLESULFENAMIDE, N- CYCLOHEXYL-,	6770	J 339K	J 259
012	2-BENZOTHAZOLESULFENAMIDE, N- CYCLOHEXYL-,	9220	J 5K	J 455
012	2-BENZOTHAZOLESULFENAMIDE, N- CYCLOHEXYL-,	6540	J 300K	J 221
012	2-BENZOTHAZOLESULFENAMIDE, N- CYCLOHEXYL-,	2570	J 292K	J 185

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RUBBER CHEMICALS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
012	2-BENZOTHAZOLESULFENAMIDE, N-CYCLOHEXYL-	7835	J 96K	J 546
012	2-BENZOTHAZOLESULFENAMIDE, N-TERT-BUTYL-	6540	J 268K	J 205
012	2-BENZOTHAZOLESULFENAMIDE, N-TERT-BUTYL-	9180	J 527K	J 616
012	2-BENZOTHAZOLESULFENAMIDE, N,N-DIISOPROPYL-	160		J 230
012	2-BENZOTHAZOLESULFENAMIDE, N,N-DIISOPROPYL-	7240		J 322
012	2-BENZOTHAZOLETHIOL	9220	J 222K	J 77
012	2-BENZOTHAZOLETHIOL	9220	J 185K	J 79
012	2-BENZOTHAZOLETHIOL	6540	J 291K	J 217
012	2-BENZOTHAZOLETHIOL	6540	J 273K	J 216
012	2-BENZOTHAZOLETHIOL	2570	J 238K	J 127
012	BENZOTHAZOLETHIOL, 2-/MORPHOLINO-	9220		J 362
090	BETANOX SPECIAL ANTIOXIDANT	6770		J 248
550	BETAPRENE AC 100	7630	J 590K	J 668
022	BUTENE ACCELERATOR	6770	J 356K	J 266
090	BHT ANTIOXIDANT	5220	J 222K	J 472
014	BISMATE ACCELERATOR	9220	J 178K	J 90
014	BISMUTH, TRIS/DIMETHYLDITHIOCARBAMATO/-	9220	J 178K	J 90
190	BONDING AGENT G LATEX	6630	J 130K	J 580
190	BONDING AGENT M-3	9180		J 685
190	BONDING AGENT R-4	9180		J 686
190	BONDING AGENT R-6	9180		J 687
150	BONDGEN	9220	J 388K	J 374
018	BORIC ACID, O-HYDROXYPHENYL O-PHENYLENE ESTER, CPD WITH 1,3-DI-TOLYLGUANIDINE	2570	J 455K	J 9
018	BORIC ACID, O-HYDROXYPHENYL O-PHENYLENE ESTER, CPD WITH 1,3-DI-TOLYLGUANIDINE	2570	J 455K	J 9
130	BRC 21 SOFTENER	120		J 24
130	BRH 2 RUBBER SOFTENER	120	J 543K	J 629
210	BROWN RUBBER SUBSTITUTE 2F FILLER	1460		J 2
210	BROWN RUBBER SUBSTITUTE 2L FILLER	1460		J 3
210	BROWN RUBBER SUBSTITUTE 300 FILLER	1460		J 4
130	BRV RUBBER SOFTENER	120	J 450K	J 340
290	BUNAC KS RECLAIMING OIL	6060		J 30
190	BUTAC TACKIFIER	4460		J 320
014	BUTASAN U ACCELERATOR	6540		J 12
014	BUTAZATE ACCELERATOR	6770	J 332K	J 253
014	BUTAZATE 50-D	9180		J 688
014	BUTYL EIGHT ACCELERATOR	9220	J 571K	J 650
570	T-BUTYL HYDROPEROXIDE /CADOX TBH/	1523		J 689
570	BUTYL NAMATE LATEX CURING CATALYST	9220		J 60
130	BUTYL PHOSPHATE	3080	J 166K	J 184
014	BUTYL ZIMATE ACCELERATOR	9220	J 207K	J 15
014	BUTYL ZIRAM ACCELERATOR	7240	J 258K	J 162
290	BWH-1	6770	J 350K	J 383
090	BXA-G	9180	J 34K	J 484
028	C-P-B ACCELERATOR	6770	J 354K	J 265
210	CAB-O-SIL REINFORCING AGENT	1200	J 231K	J 115
014	CADMIUM, BIS/DIETHYLDITHIOCARBAMATO/-	9220	J 506K	J 99
210	CALCENE TM REINFORCER	7350	J 246K	J 166
210	CALCIUM CARBONATE	32	J 260K	J 102
130	CALIFLUX GP	3535	J 407K	J 398
130	CALIFLUX LBL	3535	J 411K	J 410
130	CALIFLUX OSR PLASTICIZER	3535	J 410K	J 299
130	CALIFLUX R-100	3535	J 417K	J 397
130	CALIFLUX RC	3535	J 419K	J 396
130	CALIFLUX TT	3535	J 420K	J 395
130	CALIFLUX 510	3535	J 414K	J 411
130	CALIFLUX 550	3535	J 413K	J 409
012	CAPTAX ACCELERATOR	9220	J 222K	J 77
190	CAR-BEL-EX M-19-C VEG. OIL	1460		J 690
070	CARBAMIC ACID, /2-AMINOETHYL/-	2570	J 340K	J 352
070	CARBAMIC ACID, /6-AMINOHEXYL/-	2570	J 313K	J 353
014	CARBAMIC ACID, DIBUTYLDITHIO-	6540	J 379K	J 382
014	CARBAMIC ACID, DIBUTYLDITHIO-, N,N-DIMETHYLCYCLOHEXYLAMINE SALT	6540		J 381

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RUBBER CHEMICALS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
012	CARBANIC ACID, DIETHYLOITHIO-, 2-BENZOTHAZOLYL ESTER	7240	J 301K	J 157
270	CARBANIC ACID, DIMETHYLOITHIO-, SODIUM SALT	3580	J 19K	J 469
070	CARBANIC ACID, 6-/AMINOHEXYL/-	6463	J 10K	J 460
020	CARBANILIDE, THIO-	6540	J 295K	J 207
170	CARDOLITE 103 PROCESSING AID	6470	J 546K	J 632
012	CBTS ACCELERATOR	7835	J 96K	J 546
070	CBU URETHANE CURING AGENT	1480	J 553K	J 117
230	CELOGEN OT	6770		J 358
170	CERTREX 69 PROCESSING AID	8530	J 463K	J 203
130	CETUS OIL (PLASTICIZER AND SOFTENER	8987	J 357K	J 270
190	CHEMLOK 205 ADHESIVE	4508	J 100K	J 550
190	CHEMLOK 217 ADHESIVE	4508	J 98K	J 548
190	CHEMLOK 218 ADHESIVE	4508	J 99K	J 549
190	CHEMLOK 220 ADHESIVE	4508	J 61K	J 511
190	CHEMLOK 221 ADHESIVE	4508	J 56K	J 506
190	CHEMLOK 228 ADHESIVE	4508	J 69K	J 519
190	CHEMLOK 231 ADHESIVE	4508	J 68K	J 518
190	CHEMLOK 232 ADHESIVE	4508	J 59K	J 509
190	CHEMLOK 234 ADHESIVE	4508	J 58K	J 508
190	CHEMLOK 304-1 ADHESIVE	4508	J 63K	J 513
190	CHEMLOK 304-2 ADHESIVE	4508	J 57K	J 507
190	CHEMLOK 305-1 ADHESIVE	4508	J 60K	J 510
190	CHEMLOK 305-2 ADHESIVE	4508	J 62K	J 512
170	CHEMLOK 607 ADHESIVE	4508	J 74K	J 524
170	CIRCO LIGHT RUBBER PROCESS AID	8840	J 191K	J 54
170	CIRCOSOL NS8 PROCESSING AID	8840	J 193K	J 52
170	CIRCOSOL 2XH1 PROCESSING AID	8840	J 195K	J 49
170	CIRCOSOL 410 NAPHTHENIC OIL	8840		J 744
170	CIRCOSOL 42XH5 NAPHTHENIC OIL	8840		J 743
170	CIRCOSOL 450 NAPHTHENIC OIL	8840		J 745
560	CITRAMENE ODORANT	6828		J 691
110	CLARITE A STABILIZER COMPONENT	6720	J 362K	J 172
110	CLARITE B STABILIZER COMPONENT	6720	J 248K	J 173
570	COAL TAR, REFINED	7640		J 719
012	CONAC S ACCELERATOR	2570	J 292K	J 185
090	COPPER INHIBITOR 50 INHIBITOR	2570	J 183K	J 81
014	COPPER, BIS/DIMETHYLDITHIO- CARBAMATO/-	9220	J 180K	J 86
130	CORAX LUBRICANT	6820	J 402K	J 325
570	COREPHEN 1051	6630		J 692
130	CP 524 RECLAIMING AGENT	120	J 7K	J 457
170	CPF 0004 CPF-D FLAME RETARDANT	7168	J 122K	J 572
170	CPF 0008 CPF-E FLAME RETARDANT	7168	J 45K	J 495
090	O-CRESOL, A,A'-/PROPYLENEDI- NITRIL/DI-	2570	J 183K	J 81
090	P-CRESOL, A,A',A''-/TRIMETHYL-S- PHENENYL/TRIS/2,6-DI-TERT-BUTYL-	8320	J 308K	J 351
090	P-CRESOL, 2,2'-METHYLENEBIS/6- TERT-BUTYL-	1490		J 28
090	P-CRESOL, 2,2'-METHYLENEBIS/6- TERT-BUTYL-	160	J 503K	J 16
090	P-CRESOL, 2,6-DI-TERT-BUTYL-	190	J 436K	J 264
090	P-CRESOL, 2,6-DITERTIARYBUTYL-	5220	J 22K	J 472
090	P-CRESOL, 2,6-DITERTIARYBUTYL-	5220	J 109K	J 559
090	M-CRESOL, 4,4'-BUTYLIDENE/6- TERT-BUTYL-	6540	J 269K	J 227
090	M-CRESOL, 4,4'-THIOBIS/6-TERT- BUTYL-	6540	J 331K	J 209
090	M-CRESOL, 4,4'-THIOBIS/6-TERT- BUTYL/-	6540	J 338K	J 329
190	CRUDE SOLVENT NAPHTA TACKIFIER	5220	J 570K	J 649
090	CS-137 ANTIOXIDANT	6720	J 568K	J 175
290	CTLA POLYMER RECLAIMING AGENT	2770	J 366K	J 287
014	CUMATE ACCELERATOR	9220	J 180K	J 86
570	CUNIMENE D-7286 FUNGICIDE	8100	J 536K	J 622
012	CURAX ACCELERATOR	9220	J 5K	J 455
090	CYANAFLEX 100 ANTIOXIDANT	160	J 70K	J 520
090	CYANOX LF ALKYLATED PHENOL	160	J 8K	J 458
090	CYANOX 53 ANTIOXIDANT	160	J 562K	J 644
090	CYANOX 8 ANTIOXIDANT	160	J 80K	J 530
090	CYASORB UV-24	160	J 304K	J 449
170	CYCLOLUBE 114	3535	J 416K	J 400
130	CYCLOLUBE 413	3535	J 427K	J 403
270	CYCLOLUBE 913	3535	J 468K	J 399
170	CYCLOLUBE NN-1	3535	J 428K	J 407
170	CYCLOLUBE NN-2	3535	J 431K	J 401

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CLASS		MFG CODE	GRATING	PRISM
170	CYCLOLUBE NN-3	3535	J 429K	J 405
170	CYCLOLUBE NN-4	3535	J 408K	J 402
130	CYCLOLUBE 2310 PLASTICIZER	3535	J 430K	J 298
130	CYCLOLUBE 4053	3535	J 409K	J 408
012	CYDAC ACCELERATOR	160	J 485K	J 290
070	CYREZ 711	160	J 78K	J 528
550	CYREZ 915 LATEX CURING RESIN	160	J 566K	J 647
070	CYREZ 933	160	J 108K	J 558
016	CYURAM DS ACCELERATOR	160	J 329K	J 330
016	CYURAM MS ACCELERATOR	160	J 154K	J 236
090	CYZONE IP ANTIOZONANT	160		J 231
030	D-B-A ACTIVATOR	9180	J 77K	J 527
490	DARVAN NO 1 DISPERSING AGENT	9220	J 189K	J 56
490	DARVAN NO 2 DISPERSING AGENT	9220		J 58
090	DBPC ANTIOXIDANT	5220	J 109K	J 559
570	DDM-80-MERCAPTAN	7240	J 576K	J 655
012	DELAC S ACCELERATOR	6770	J 339K	J 259
012	DELAC-NS ACCELERATOR	9180	J 527K	J 616
170	DESMODUR L FINISH	534	J 114K	J 564
070	DI-CUP VULCANIZING AGENT	4240	J 204K	J 29
130	DI/BUTOXYETHYL/ PHTHALATE	260	J 437K	J 417
090	DI/TRIDECYL/THIODIPROPIONATE	2820	J 65K	J 515
130	DI/2-ETHYLHEXYL/ PHTHALATE	8950	J 389K	J 425
070	DIAM NO. 1	2570	J 313K	J 353
070	DIAM NO. 2	2570	J 340K	J 352
070	DIBENZO GMF VULCANIZING AGENT	6770	J 296K	J 245
070	DIBENZO PQD VULCANIZING AGENT	9370	J 118K	J 568
012	DIBS ACCELERATOR	160		J 230
014	DIBUTYL DITHIOCARBAMIC ACID, N,N-DIMETHYLCYCLOHEXYLAMINE SALT	6540		J 720
014	DIBUTYL DITHIOCARBAMIC ACID, NICKEL SALT	1521	J 43K	J 493
070	DICHLORO BENZIDINE DIHYDRO- CHLORIDE	9130	J 36K	J 486
090	DICYCLOHEXYLTHIOUREA, N,N'-	20	J 35K	J 485
130	DIGLYCOL OLEATE LSE PLASTICIZER	5050	J 504K	J 43
130	DIISOBUTYL PHTHALATE	8950	J 390K	J 426
090	M-DIMETHOXYBENZENE	180	J 93K	J 543
028	DIMETHYLPIPERAZINE, 2,5-	9900	J 311K	J 323
012	DIPAC	7240		J 322
290	DIPENTENE NO. 122	4240	J 489K	J 441
050	DIPHENYLAMINE, N-NITROSO	7865	J 565K	J 646
050	DIPHENYLAMINE, N-NITROSO-	9220	J 230K	J 100
050	DIPHENYLAMINE, N-NITROSO-	3560		J 733
050	DIPHENYLAMINE, N-NITROSO-	1523		J 746
050	DIPHENYLAMINE, N-NITROSO-	3560	J 310K	J 276
050	DIPHENYLAMINE, N-NITROSO-	6710	J 28K	J 478
050	DIPHENYLAMINE, N-NITROSO-	9180	J 519K	J 609
050	DIPHENYLAMINE, N-NITROSO-	160	J 83K	J 533
090	DIPHENYLAMINE, 4-ISOPROPOXY-	9220	J 228K	J 93
016	DISULFIDE, BIS/DIETHYLTHIO- CARBAMOYL/	9220	J 217K	J 67
016	DISULFIDE, BIS/DIETHYLTHIOCAR- BAMOYL/	6770	J 328K	J 258
016	DISULFIDE, BIS/DIETHYLTHIOCARB- AMOYL/	2570	J 241K	J 135
016	DISULFIDE, BIS/DIETHYLTHIOCARB- AMOYL/	7240	J 256K	J 159
016	DISULFIDE, BIS/DIMETHYLTHIO- CARBAMOYL/	160	J 329K	J 330
016	DISULFIDE, BIS/DIMETHYLTHIO- CARBAMOYL/	9220	J 223K	J 78
016	DISULFIDE, BIS/DIMETHYLTHIO- CARBAMOYL/	6540		J 220
016	DISULFIDE, BIS/DIMETHYLTHIO- CARBAMOYL/	2570	J 235K	J 124
016	DISULFIDE, BIS/DIMETHYLTHIO- CARBAMOYL/	7240	J 244K	J 156
016	DISULFIDE, BIS/DIMETHYLTHIOCAR- BAMOYL/	6770	J 283K	J 250
016	DISULFIDE, BIS/DIMETHYLTHIOCAR- BAMOYL/	27	J 294K	J 189
012	DISULFIDE, 2-BENZOTHAZOLE-4- MORPHOLINO-	9220		J 371

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CLASS		MFG CODE	GRATING	PRISM
270	DITERTIARY AMYL POLYSULFIDE	7300	J 23K	J 473
270	DITERTIARY OCTYL POLYSULFIDE	7300	J 3K	J 453
028	DITHIODIMORPHOLINE, 4,4*-	6540	J 335K	J 443
270	DODECANETHIOL, TERT-	7240	J 376K	J 335
270	N-DODECYL MERCAPTAN	7240	J 137K	J 587
270	DODECYLMERCAPTAN, TERT-	7300	J 475K	J 57
270	DODECYLMERCAPTAN, TERT-	7240	J 376K	J 335
018	DOTG ACCELERATOR	160	J 280K	J 232
450	DOM CORNING ANTIFOAM A DEFOAMER	2490	J 4C6K	J 119
450	DOM CORNING ANTIFOAM C DEFOAMER	2490	J 460K	J 118
018	DPG ACTIVATOR	6540	J 290K	J 206
190	DRESINOL 155 DISPERSION	4240		J 693
190	DRESINOL 205	4240	J 82K	J 532
190	DRESINOL 210-8 LATEX TACKIFIER	4240	J 140K	J 590
190	DRESINOL 42	4240	J 81K	J 531
012	DURAX ACCELERATOR	9220	J 112K	J 562
170	DUTREX 298	8310		J 349
130	DUTREX 726	8310		J 433
170	DUTREX 739	8310	J 395K	J 348
130	DUTREX 757	8310	J 444K	J 432
130	DUTREX 786	8310	J 443K	J 437
130	DUTREX 896	8310		J 434
130	DUTREX 1786	8310	J 481K	J 438
110	DYTHAL HEAT AND LIGHT STABILIZER	6720	J 263K	J 180
090	EASTMAN INHIBITOR DAHQ	8950	J 1C4K	J 554
090	EASTMAN INHIBITOR DOBP	8950	J 1C5K	J 555
090	EASTMAN INHIBITOR OPS	8950	J 106K	J 556
090	EASTOZONE 30 ANTIOZONANT	8950	J 199K	J 40
090	EASTOZONE 31	8950	J 423K	J 373
090	EASTOZONE 32 ANTIOZONANT	8950	J 456K	J 140
090	EASTOZONE 33 ANTIOZONANT	8950	J 94K	J 544
012	EL SIXTY ACCELERATOR	6540	J 534K	J 218
270	ELASTOPAR CHEMICAL MODIFIER	6540	J 210K	J 32
030	EMERSOL 220 ACTIVATOR	2750	J 117K	J 567
030	EMERSOL 221 ACTIVATOR	2750	J 115K	J 565
530	EMERSOL 233 LATEX STABILIZER	2750	J 243K	J 144
030	EMERY 3325 ACTIVATOR	2750	J 116K	J 566
130	EMERY 906 PLASTICIZER	2750		J 143
150	ENDOR	2570	J 55K	J 505
130	EPOXOL 7-4 PLASTICIZER	8860	J 360K	J 277
050	ESEN RETARDER	6770		J 359
130	ESTREX 18 54 PLASTICIZER	8860		J 278
090	ETHANOL, 2-ANILINO-	9046	J 16K	J 466
014	ETHAZATE ACCELERATOR	6770	J 288K	J 256
014	ETHAZATE 50-D ACCELERATOR	9180	J 529K	J 618
014	ETHYL CADMATE ACCELERATOR	9220	J 506K	J 99
014	ETHYL SELENAC ACCELERATOR	9220	J 216K	J 66
014	ETHYL SELERAM ACCELERATOR	7240	J 274K	J 163
016	ETHYL THIRAM ACCELERATOR	7240	J 256K	J 159
016	ETHYL TUADS ACCELERATOR	9220	J 217K	J 67
016	ETHYL TWEX ACCELERATOR	6770	J 328K	J 258
014	ETHYL ZIMATE ACCELERATOR	9220	J 255K	J 65
014	ETHYL ZIRAM ACCELERATOR	7240	J 245K	J 158
090	ETHYL 2-CYANO-3,3-DIPHENYL ACRYLATE	3400		J 147
012	ETHYLAC ACCELERATOR	7240	J 301K	J 157
090	ETHYLENEDIAMINE, N,N*-DI-PHENYL-	3880	J 324K	J 357
090	ETHYLENEDIAMINE, N,N*-DI-O-TOLYL-	3880	J 497K	J 317
210	ETHYLENEDIAMINE, TETRA/HYDROXY-ETHYL/-	6650	J 583K	J 661
020	ETHYLENETHIOUREA, N,N*-	9220	J 41K	J 491
090	2-ETHYLHEXYL OCTYLPHENYL PHOSPHITE	9300		J 301
210	FACTICE R RUBBER SUBSTITUTE FILLER	9220		J 1
190	FILTREZ 13 TACKIFIER	2915	J 147K	J 597
190	FILTREZ 15 TACKIFIER	2920	J 550K	J 636
090	FLECTOL H ANTIOXIDANT	6540	J 302K	J 225
090	FLEXAMINE G ANTIOXIDANT	6770	J 287K	J 240
130	FLEXRICIN P-1 PLASTICIZER	390	J 452K	J 114
130	FLEXRICIN P-6	390	J 394K	J 427

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CLASS		MFG CODE	GRATING	PRISM
090	FLEXZONE 3-C ANTIOZONANT	6770	J 285K	J 242
090	FLEXZONE 5-L ANTIOZONANT	9180	J 515K	J 605
090	FLEXZONE 6-H ANTIOZONANT	6770	J 284K	J 241
110	FLOMAX 25 HEAT STABILIZER	6720	J 249K	J 174
230	FORMAMIDE, 1,1*-AZOBIS/-,		J 493K	J 272
028	FORMIC ACID, DITHIOBIS/THIO-, O,O-DIBUTYL ESTER	6770	J 354K	J 265
130	FURA-TONE NC-1008 PLASTICIZER	6470	J 479K	J 281
090	FURA-TONE NC-1012 ANTIOZONANT	6470	J 353K	J 280
070	G-M-F VULCANIZING AGENT	6770	J 281K	J 247
090	GALLIC ACID, PROPYL ESTER	8950	J 494K	J 138
190	GLUE-WIZ	172	J 111K	J 561
050	GOOD-RITE VULTROL RETARDER	3560	J 310K	J 276
018	GUANIDINE, 1,2,3-TRIPHENYL-,	120		J 439
018	GUANIDINE, 1,3-DIPHENYL-,	6540	J 290K	J 206
018	GUANIDINE, 1,3-O-TOLYL-,	160	J 280K	J 232
030	GUANTAL	6540		J 226
030	GUANTAL ACTIVATOR	6540		J 226
190	H.S.C. P-14 CHEMICAL PASTE	3980		J 697
190	H.S.C. P-15 CHEMICAL PASTE	3980		J 698
030	HALLCO ACTIVATOR C-894	3880	J 516K	J 606
570	HALLCO C-841	3880		J 694
170	HALLCO WAX C-974 PROCESS AID	3880		J 695
090	HALLCO WAX C-990 SUN INHIBITOR	3880		J 696
210	HC-75 CLAY REINFORCING AGENT	32		J 105
130	HEAVY OIL NO 10 PLASTICIZER	6790	J 251K	J 194
090	HELIOZONE INHIBITOR	2570		J 21
022	HEPTEEN BASE ACCELERATOR	6770	J 367K	J 263
070	HEXAMETHYLENE DIAMINE CARBAMATE	6463	J 10K	J 460
028	HEXAMETHYLENETETRAMINE	2570		J 440
210	HI-SIL 233 REINFORCING FILLER	7350	J 247K	J 168
190	HMP ESTER GUM TACKIFIER	2920	J 551K	J 637
130	HYDRA OIL PLASTICIZER	8987	J 358K	J 269
230	HYDRAZINE, P,P*-OXYBIS/BENZENE- SULFONYL-,	6770		J 358
130	HYDROFOL GLYCERIDE 42	240	J 473K	J 106
570	HYDROFOL GLYCERIDE 200	240	J 170K	J 107
090	HYDROQUINONE MONOBENZYL ETHER	9220	J 188K	J 68
090	HYDROQUINONE, 2,5-DI-TERT- AMYL-,	8950	J 104K	J 554
090	HYDROQUINONE, 2,5-DI-TERT- PENTYL-,	6540	J 298K	J 224
090	HYDROQUINONE, 2,5-DITERTIARY- BUTYL-,	8950	J 12K	J 462
490	HYDROS MDK-8 EMULSIFIER	2050		J 699
490	HYDROS MOS-7 EMULSIFIER	2050		J 700
050	HYDROXYLAMINE, DIETHYL-,	7240	J 567K	J 648
030	HYFAC 400 ACTIVATOR PLASTICIZER	2750	J 495K	J 141
030	HYFAC 430 ACTIVATOR PLASTICIZER	2750	J 531K	J 142
530	HYONIC PE-90 LATEX STABILIZER	6820	J 400K	J 293
028	IMIDAZOLINE-2-THIOL	2570	J 213K	J 61
130	INDONEX W-2	190	J 442K	J 435
190	INDOPOL H-100 TACKIFIER	190	J 560K	J 292
190	INDOPOL H-300	190	J 464K	J 418
090	IONOL ANTIOXIDANT	3980		J 701
090	IONOL R	8320	J 27K	J 477
090	IONOX 220 ANTIOXIDANT	8320	J 278K	J 197
090	IONOX 330	8320	J 308K	J 351
190	ISOESTER B TACKIFIER	2920	J 552K	J 638
190	ISOESTER C TACKIFIER	2920	J 555K	J 640
190	ISOESTER D TACKIFIER	2920	J 556K	J 641
090	J-Z-F ANTIUOXIDANT	9180	J 1K	J 451
190	J-344 RESIN EMULSION TACKIFIER	2950	J 149K	J 599
190	J-781 RESIN EMULSION TACKIFIER	2950	J 148K	J 598
570	J-839 RESIN EMULSION	2950		J 702

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CLASS		MFG CODE	GRATING	PRISM
170	K-STAY	9220	J 385K	J 336
230	KEMPORE 125	6710		J 328
230	KEMPORE 150	6710	J 493K	J 272
130	KENFLEX A	4990	J 462K	J 420
290	KENFLEX B	4990	J 6K	J 456
130	KENFLEX L PLASTICIZER	4990		J 150
170	KENFLEX N PROCESSING AID	4990		J 152
130	KENPLAST RD PLASTICIZER	4990	J 405K	J 153
130	KENPLAST RDN PLASTICIZER	4990	J 463K	J 149
130	KENPLAST VR PLASTICIZER	4990		J 151
130	KESCOFLEX BCS PLASTICIZER	5050		J 42
190	KORESIN TACKIFIER	3400	J 316K	J 312
130	KP-140	3080	J 393K	J 423
130	KP-177 PLASTICIZER	3080	J 478K	J 183
130	KRONISGL	3080		J 430
130	KRONITEX AA PLASTICIZER	3080	J 168K	J 134
570	L-45 DIMETHYL SILICONE OIL	1400	J 544K	J 630
030	LAUREX ACTIVATOR	6770	J 498K	J 448
030	LAURIC ACID	260		J 70
570	LAURGYL PEROXIDE /CADOX LPO/	1523		J 703
030	LEAD OLEATE 24%	9780	J 73K	J 523
014	LEAD, BIS/DIMETHYLDITHIO-CARBAMATO/-	9220	J 221K	J 74
110	LECTRO 60 HEAT STABILIZER	6720	J 259K	J 177
014	LEDATE ACCELERATOR	9220	J 221K	J 74
030	LINSEED OIL FATTY ACIDS	9810	J 143K	J 593
030	LIQRO ACTIVATOR	9430		J 294
290	LX-809 RECLAIMING OIL	6790	J 467K	J 345
070	MALEIC ACID, LEAD SALT	6720	J 265K	J 179
170	MARBON 8000	5960	J 347K	J 445
170	MARBON 8000A	5960	J 344K	J 446
170	MARBON 8000AE	1960		J 169
090	MBMC ANTIOXIDANT	5220	J 76K	J 526
012	MBT ACCELERATOR	2570	J 238K	J 127
012	MBT XXX ACCELERATOR	160	J 95K	J 545
012	MBTS ACCELERATOR	2570	J 233K	J 122
090	MBX-200 ANTIOXIDANT	5220	J 396K	J 311
090	MCGEAN ANTIMONY OXIDE L	3980	J 91K	J 541
014	MERAC LATEX ACCELERATOR	8290	J 211K	J 36
270	MERCAPTAN 3B	7240		J 704
270	MERCAPTAN 4P	7240	J 376K	J 335
012	2-MERCAPTOBENZOTHAZOLE	160	J 95K	J 545
012	2-MERCAPTOTHIAZOLE	160	J 32K	J 482
012	MERTAX ACCELERATOR	6540	J 291K	J 217
014	METHANSAN ACCELERATOR	6540	J 512K	J 603
014	METHAZATE ACCELERATOR	6770	J 341K	J 261
130	METHOX	3080	J 392K	J 424
130	METHYL OLEATE	6820	J 391K	J 421
014	METHYL SELENAC ACCELERATOR	9220	J 225K	J 85
016	METHYL THIRAM ACCELERATOR	7240	J 244K	J 156
016	METHYL TUADS ACCELERATOR	9220	J 223K	J 78
014	METHYL ZIMATE ACCELERATOR	9220	J 179K	J 88
014	METHYL ZIRAM ACCELERATOR	7240	J 330K	J 164
090	MICROFLAKE WAX 115 ANTIOXIDANT	3475	J 575K	J 654
090	MICROFLAKE WAX 123 ANTIOXIDANT	3475	J 139K	J 589
190	MINERAL RUBBER 3B	9780	J 578K	J 657
070	MOCA URETHANE CURING AGENT	2570	J 326K	J 302
110	MODICOL N CHEMICAL STABILIZER	6820	J 197K	J 47
110	MODICOL S CHEMICAL STABILIZER	6820	J 196K	J 48
030	MODX ACTIVATOR	3880		J 356
170	MOLD WIZ F-57	172	J 66K	J 516
170	MOLD WIZ 249	172	J 67K	J 517
270	MOLDBRITE 25 EXTENDER, RELEASE AGENT	295	J 538K	J 624
016	MONEX ACCELERATOR RETARDER	6770	J 257K	J 251
016	MONO THIURAD ACTIVATOR	6540	J 156K	J 219
012	MORFAX ACCELERATOR	9220		J 371
130	MORFLEX 240 PLASTICIZER	7270	J 364K	J 284
130	MORFLEX 325 PLASTICIZER	7270	J 365K	J 285
130	MORFLEX 375	7270	J 448K	J 422
130	MPX 271 PLASTICIZER	307	J 144K	J 594
130	MPX 301 PLASTICIZER	307	J 141K	J 591

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CLASS		MFG CODE	GRATING	PRISM
012	2-MT 2-MERCAPTOTHIAZOLE	160	J 32K	J 482
030	MYRISTIC ACID	260	J 488K	J 108
028	NA-22	2570	J 213K	J 61
028	NA-22 ACCELERATOR	2570	J 213K	J 61
490	NAPHTHALENESULFONIC ACID, SODIUM SALT	6820	J 334K	J 319
090	A-NAPHTHYLAMINE	27	J 120K	J 570
090	1-NAPHTHYLAMINE, N-PHENYL-,	2570	J 425K	J 388
090	1-NAPHTHYLAMINE, N-PHENYL-,	2570	J 387K	J 389
090	1-NAPHTHYLAMINE, N-PHENYL-,	2570	J 92K	J 542
090	2-NAPHTHYLAMINE, N-PHENYL-,	9220	J 227K	J 92
090	2-NAPHTHYLAMINE, N-PHENYL-,	2570	J 426K	J 387
090	2-NAPHTHYLAMINE, N-PHENYL-,	2570	J 237K	J 126
090	8-NAPHTHYLAMINE, PHENYL-,	9180	J 518K	J 608
170	NAPREX 38 PROCESSING OIL	8530		J 341
190	NATAC TACKIFIER	4460	J 123K	J 573
090	NAUGAWHITE ANTIOXIDANT	6770	J 355K	J 267
090	NBC OZONE INHIBITOR	2570	J 239K	J 128
030	NEO-FAT 18 STEARIC ACID ACTIV.	260		J 705
030	NEO-FAT 18-53 STEARIC ACTIVATOR	260		J 706
030	NEO-FAT 18-54 STEARIC ACTIVATOR	260		J 707
110	NEO-FAT 90-04 STABILIZER	260		J 708
110	NEO-FAT 92-04 STABILIZER	260		J 709
110	NEO-FAT 94-04 STABILIZER	260		J 710
030	NEO-FAT 94-10	260	J 97K	J 547
270	NEO-RES 100 EXTENDER	1822	J 127K	J 577
030	NEOFAT 12 ACTIVATOR	260		J 70
030	NEOFAT 14 ACTIVATOR	260	J 488K	J 108
090	NEOZONE A	2570	J 92K	J 542
090	NEOZONE C	2570	J 387K	J 389
090	NEOZONE D ANTIOXIDANT	2570	J 237K	J 126
090	NEVASTAIN A ANTIOXIDANT	6790	J 163K	J 192
090	NEVASTAIN B ANTIOXIDANT	6790	J 312K	J 316
130	NEVILLE LX782 PLASTICIZER	6790		J 193
130	NEVILLE R-16 PLASTICIZER	6790	J 525K	J 195
210	NEVINDENE R-7 REINFORCING AGENT	6790	J 153K	J 46
190	NEWPORT TARPINE TACKIFIER	8925	J 533K	J 621
190	NEWPORT ZINAR TACKIFIER	8925	J 526K	J 615
190	NEWPORT ZIREX TACKIFIER	8925	J 524K	J 614
190	NEWPORT ZITRO TACKIFIER	8925	J 528K	J 617
050	NIAGATHAL	4480	J 323K	J 419
090	NICKEL, BIS/DIBUTYLDITHIOCARB- AMATO/-,	2570	J 239K	J 128
230	NITROSAN	2570	J 337K	J 350
050	N-NITROSO DIPHENYLAMINE	7865	J 565K	J 646
190	NO. 2-E BROWN VULCANIZED VEGETABLE OIL	1460	J 540K	J 626
190	NO. 2-L BROWN VULCANIZED VEGETABLE OIL	1460	J 539K	J 625
190	NO. 214 WHITE VULCANIZED VEGETABLE OIL	1460	J 514K	J 604
190	NO. 30 WHITE SPECIAL FRENCH VULCANIZED VEGETABLE OIL	1460	J 522K	J 612
190	NO. 31-B WHITE VULCANIZED VEGETABLE OIL	1460	J 520K	J 610
190	NO. 3365 WHITE VULCANIZED VEGETABLE OIL	1460	J 521K	J 611
190	NO. 350 BROWN VULCANIZED VEGETABLE OIL	1460	J 541K	J 627
190	NO. 5-L BROWN VULCANIZED VEGETABLE OIL	1460	J 586K	J 664
190	NO. 50 WHITE VULCANIZED VEGETABLE OIL	1460	J 517K	J 607
012	NOBS NO. 1 ACCELERATOR	160	J 39K	J 489
012	NOBS SPECIAL ACCELERATOR	160	J 262K	J 229
130	NONANOIC ACID, DIESTER WITH TRIETHYLENE GLYCOL	2750	J 563K	J 145
090	NONOX CNS INHIBITOR	270	J 271K	J 110
090	NONOX WSL ANTIOXIDANT	270	J 461K	J 109
090	NONOX WSO	270	J 9K	J 459
090	NONOX WSP ANTIOXIDANT	270	J 270K	J 111
090	NONOX ZA ANTIOXONANT	270	J 266K	J 112
490	NOPCOSANT DISPERSING AGENT	6820	J 334K	J 319
170	NOPCOWAX 22-DS PROCESSING AID	6820	J 482K	J 291
030	NORMALAL ACTIVATOR	6720	J 303K	J 178

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130	NP-10 POLYMERIC PLASTICIZER	8950	J 491K	J 139
012	O-X-A-F ACCELERATOR	9180	J 203K	J 33
570	OBTS	7835	J 107K	J 557
090	OCTADECANANILIDE, 4*-HYDROXY-	6460	J 471K	J 154
090	OCTAMINE ANTIOXIDANT	6770	J 286K	J 255
570	OCTIN MUCATE	5100	J 558K	J 643
560	ODOR MASK C ODORANT	6828		J 712
560	ODOR MASK IND ODORANT	6828		J 713
560	ODOR MASK L ODORANT	6828		J 714
560	ODOR MASK W ODORANT	6828		J 715
560	ODOR MASK 17 ODORANT	6828		J 711
560	ODOR MASK 34 ODORANT	6828	J 84K	J 534
560	ODOR MASK 69 ODORANT	6828	J 85K	J 535
560	ODOR MASK 70 ODORANT	6828	J 86K	J 536
560	ODOR MASK 73 ODORANT	6828	J 87K	J 537
560	ODOR MASK 74 ODORANT	6828	J 88K	J 538
130	OHOPEX R-9	3080	J 445K	J 429
170	OIL 210	9150	J 424K	J 370
170	OIL 320	9150	J 507K	J 368
130	OIL 522	8987	J 359K	J 271
130	OIL 1520	120	J 435K	J 307
530	OLEIC ACID	2750	J 243K	J 144
030	OLEIC ACID, DIBUTYLAMINE SALT	2570	J 476K	J 132
030	OLEIC ACID, DIBUTYLAMINE SALT	2570	J 476K	J 132
130	OLEIC ACID, METHYL ESTER	6820	J 391K	J 421
230	OPEX 80	6710	J 484K	J 384
012	N-OXYDIETHYLENE BENZOTHAZOLE-2-SULFENAMIDE	9220		J 362
090	P-B-N-A ANTIOXIDANT	9180	J 518K	J 608
028	P/DPG/D-65 ACCELERATOR	9930	J 414K	J 416
570	PA-65 MODIFIED POLYAMINE	4905	J 588K	J 666
190	PALE OIL 1600	8992	J 587K	J 665
270	PALE OIL 2000 EXTENDER	8987	J 363K	J 268
070	PAPI CURING AGENT	1480		J 308
130	PARA RESIN 2457	3880	J 318K	J 354
210	PARADENE NO. 2	6790	J 306K	J 360
530	PARASYN LAL-23	9045	J 446K	J 436
190	PARCO TEX-500	7100		J 717
190	PARCO 200 HYDROCARBON RESIN	7100	J 554K	J 639
190	PARCO 400-F	7100		J 716
560	PARODOR ODOR MASK	3300		J 718
028	PBD-75 ACCELERATOR	9930	J 414K	J 415
210	PENACOLITE RESIN B-18	5220	J 125K	J 575
016	PENNAC MS 512 ACCELERATOR	7240	J 584K	J 662
570	PENNAC ZT 1285	7240	J 593K	J 671
012	PENNAC ZT-W 1286 ACCELERATOR	7240	J 580K	J 658
090	PENNOX A ANTIOXIDANT	7240		J 160
090	PENNOX D ANTIOXIDANT	7240	J 167K	J 161
050	PENNSTOP 1866	7240	J 567K	J 648
090	PENNZONE B ANTIOXONANT	7240	J 535K	J 155
090	PENNZONE E	7240	J 386K	J 318
020	PENNZONE 688 ACCELERATOR	7240	J 134K	J 584
230	PENTAMETHYLENETETRAMINE, DI-NITROSO-	6710	J 484K	J 384
016	PENTEX ACCELERATOR	6770	J 351K	J 305
130	PEPTON 22 PLASTICIZER PEPTIZER	160	J 289K	J 233
130	PEPTON 65 PLASTICIZER	160	J 293K	J 237
018	PERMALUX	2570	J 455K	J 9
018	PERMALUX ACCELERATOR	2570	J 455K	J 9
570	PERMYL-B-100	2910	J 132K	J 582
070	PEROXIDE, BIS(A,A-DIMETHYL-BENZYL/	4240	J 204K	J 29
028	PETD 70 ACCELERATOR	9930	J 414K	J 413
130	PETROFLUX LV	3535	J 418K	J 404
130	PETROFLUX MV PLASTICIZER	3535	J 421K	J 297
022	PHENEX ACCELERATOR	3880	J 4K	J 454
090	PHENOL, N-DODECYL/P-AMINO/-	6460	J 15K	J 465
090	PHENOL, P-BENZYL OXY/-	9220	J 188K	J 68
150	PHENOL, PENTACHLOROTHIO-4 ZINC DERIVATIVE	2570	J 55K	J 505
090	PHENOL, 2,2*-METHYLENEBIS(4-ETHYL-6-TERT-BUTYL-	160	J 275K	J 238

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CLASS		MFG CODE	GRATING	PRISM
090	PHENOL, 2,2*-THIOBIS/4-METHYL-6-TERT-BUTYL/-,	1490	J 336K	J 442
090	PHENOL, 2,2*-THIOBIS/4,6-BIS-/1-METHYLBUTYL/-,	6540	J 161K	J 212
090	PHENOL, 2,4-DIMETHYL-6-TERT-BUTYL/-,	5220	J 396K	J 311
090	PHENOL, 2,6-DI-T-BUTYL-4-METHYL/-,	3980		J 701
090	PHENOL, 2,6-DI-TERT-BUTYL-4-METHYL/-,	8320	J 27K	J 477
090	PHENOL, 3-METHYL-6-/TERT-BUTYL/-,	5220	J 76K	J 526
090	PHENOL, 4,4*-METHYLENEBIS/2,6-DI-TERT-BUTYL/-,	8320	J 278K	J 197
090	PHENYL ETHANOLAMINE	9046	J 16K	J 466
090	P-PHENYLENEDIAMINE, N-/1,3-DI-METHYLBUTYL/-N*-PHENYL/-,	9220	J 121K	J 571
090	P-PHENYLENEDIAMINE, N-/4-METHYL-2-PENTYL/-N*-PHENYL/-,	3580	J 25K	J 475
090	P-PHENYLENEDIAMINE, N-ALKYL-N*-PHENYL/-,	9180	J 515K	J 605
090	P-PHENYLENEDIAMINE, N-CYCLOHEXYL-N*-PHENYL/-,	6770	J 284K	J 241
090	P-PHENYLENEDIAMINE, N-ISOPROPYL-N*-PHENYL/-,	270	J 266K	J 112
090	P-PHENYLENEDIAMINE, N-ISOPROPYL-N*-PHENYL/-,	6770	J 285K	J 242
090	P-PHENYLENEDIAMINE, N-ISOPROPYL-N*-PHENYL/-,	160		J 231
090	P-PHENYLENEDIAMINE, N-ISOPROPYL-N*-PHENYL/-,	6540	J 483K	J 187
110	P-PHENYLENEDIAMINE, N-ISOPROPYL-N*-PHENYL/-,	6540	J 510K	J 601
090	P-PHENYLENEDIAMINE, N,N*-BIS//1,4-DIMETHYL/PENTYL/-,	9220	J 13K	J 463
090	P-PHENYLENEDIAMINE, N,N*-BIS/1-ETHYL-3-METHYLPENTYL/-,	6540	J 440K	J 310
090	P-PHENYLENEDIAMINE, N,N*-BIS/1-ETHYL-3-METHYLPENTYL/-,	8950	J 423K	J 373
090	P-PHENYLENEDIAMINE, N,N*-BIS/1-METHYLHEPTYL/-,	8950	J 199K	J 40
090	P-PHENYLENEDIAMINE, N,N*-BIS/1-METHYLHEPTYL/-,	6540	J 439K	J 334
090	P-PHENYLENEDIAMINE, N,N*-BIS/1,4-DIMETHYLPENTYL/-,	6540	J 542K	J 628
090	P-PHENYLENEDIAMINE, N,N*-BIS/1,4-DIMETHYLPENTYL/-,	8950	J 94K	J 544
090	P-PHENYLENEDIAMINE, N,N*-DI-/2-OCTYL/-,	9220	J 29K	J 479
090	P-PHENYLENEDIAMINE, N,N*-DI-METHYL-N,N*-DI/1-METHYLPROPYL/-,	8950	J 456K	J 140
090	P-PHENYLENEDIAMINE, N,N*-DI-PHENYL/-,	9180	J 1K	J 451
090	P-PHENYLENEDIAMINE, N,N*-DI-PHENYL/-,	9220	J 219K	J 71
090	P-PHENYLENEDIAMINE, N,N*-DI-2-NAPHTHYL/-,	9220	J 184K	J 80
090	P-PHENYLENEDIAMINE, N,N*-DI-3-/5-METHYLHEPTYL/-,	9220	J 14K	J 464
170	PHILRICH 5 PROCESSING OIL	7300		J 165
130	PHOSPHORIC ACID, TRIS/2-BUTOXY-ETHYL/ ESTER	3080	J 393K	J 423
110	PHOSPHOROUS ACID, TRISNONYL-PHENYL ESTER	6710	J 17K	J 467
030	PHTHALIC ACID, BIS/1,3-DI-PHENYLGUANIDINE/ SALT	6540		J 226
030	PHTHALIC ACID, BIS/1,3-DI-PHENYLGUANIDINE/ SALT	6540		J 226
130	PHTHALIC ACID, BIS/2-/2-ETHOXY-ETHOXY/ETHYL/ ESTER	3080	J 478K	J 183
130	PHTHALIC ACID, DI/BUTOXYETHYL/ ESTER	260	J 437K	J 417
130	PHTHALIC ACID, DI/BUTOXYETHYL/ ESTER	3080		J 430
130	PHTHALIC ACID, DI/METHOXY-ETHYL/ ESTER	3080	J 392K	J 424
130	PHTHALIC ACID, DI/2-ETHYL-HEXYL/ ESTER	8950	J 389K	J 425

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CLASS		MFG CODE	GRATING	PRISM
130	PHTHALIC ACID, DIISOBUTYL ESTER	8950	J 390K	J 426
110	PHTHALIC ACID, LEAD SALT	6720	J 263K	J 180
050	PHTHALIC ANHYDRIDE	6770		J 359
050	PHTHALIC ANHYDRIDE	6710	J 42K	J 492
050	PHTHALIC ANHYDRIDE, TETRA- CHLORO-	4480	J 323K	J 419
290	PICCO C-42 RECLAIM OIL	7220	J 165K	J 190
270	PICCOPALE A-55 LATEX EXTENDER	7220	J 569K	J 186
270	PICCOPALE C-1 EXTENDER	7220	J 579K	J 188
190	PICCOUMARON 410 TACKIFIER	7220	J 164K	J 191
870	PIPERAZINE, 1,2,4-TRIMETHYL-	9900		J 529
012	PIPERAZINE, 2,5-DIMETHYL-	9900	J 311K	J 323
014	1-PIPERIDINECARBODITHIOIC ACID, PIPERIDINE SALT	2570	J 272K	J 121
014	1-PIPERIDINECARBODITHIOIC ACID, PIPERIDINE SALT	2570	J 272K	J 121
290	PITT-CONSOL 500	7330	J 250K	J 182
150	PITT-CONSOL 640 PEPTIZER	7330	J 375K	J 337
150	PITT-CONSOL 646 PEPTIZER	7330	J 509K	J 181
150	PITT-CONSOL 651 PEPTIZER	7330	J 349K	J 326
090	PLASTANOX 425 ANTIOXIDANT	160	J 275K	J 238
090	PLASTANOX STOP ANTIOXIDANT	160	J 18K	J 468
090	PLASTANOX 2246 ANTIOXIDANT	160	J 503K	J 16
130	PLASTICIZER LP PLASTICIZER	32	J 171K	J 104
130	PLASTICIZER MP PLASTICIZER	32	J 172K	J 103
130	PLASTICIZER SC	3980	J 449K	J 428
130	PLASTICIZER ZO-9	9960	J 438K	J 346
130	PLASTICIZER 3880-A	3880	J 381K	J 338
130	PLASTICIZER 4141	3880	J 432K	J 339
130	PLASTOGEN	9220	J 373K	J 375
130	PLASTOLEIN 9404 TGP PLASTICIZER	2750	J 563K	J 145
110	PLUMB-D-SIL B LEAD SILICATE	6720	J 564K	J 645
210	POLY-PHEN S-201-C REINFORCER	6710	J 500K	J 44
210	POLY-PHEN S-202-C REINFORCER	6710	J 474K	J 45
170	POLY-PROSS PROCESSING AID	295	J 537K	J 623
270	POLYAC CMENICAL CONDITIONER	2570	J 378K	J 324
270	POLYBUTENE 32 EXTENDER	1300	J 169K	J 116
090	POLYGARD ANTIOXIDANT STABILIZER	6770		J 22
270	POTASSIUM, DIMETHYLDITHIO- CARBAMATC-	7240	J 201K	J 37
070	PQD VULCANIZING AGENT	9370	J 119K	J 569
570	PR EXTENDER 162 LATEX EXTENDER	9120	J 486K	J 273
130	1-PROPENE-1,2,3-TRICARBOXYLIC ACID, TRIBUTYL ESTER	7270	J 371K	J 286
028	PROPYL ZITHATE ACCELERATOR	9220	J 150K	J 600
090	PROPYLENEDIAMINE, 1,3-, N,N'- DIPHENYL-	3880	J 496K	J 309
170	PROREX 36 PROCESSING OIL	8530	J 441K	J 342
090	PROTECTOR NORMAL ANTIOXIDANT	4227	J 72K	J 522
130	PROTOL PLASTICIZER AND SOFTENER	9780		J 196
490	PROTOVAC PV-8397 DISPERSING AGENT	930		J 274
110	PROVINITE A	6720	J 26K	J 476
110	PROVINITE B	6720	J 384K	J 376
028	PSANNSD-70 ACCELERATOR	9930	J 414K	J 414
130	PT 400 PLASTICIZER AND SOFTENER	1200	J 453K	J 25
130	PT 600 PLASTICIZER AND SOFTENER	1200	J 466K	J 26
130	PT 800 PLASTICIZER AND SOFTENER	1200	J 465K	J 27
028	PTETD-70 ACCELERATOR	9930	J 414K	J 412
210	PURECAL SC FILLER	9900	J 499K	J 296
190	PYRIDINE, 2-VINYL-	7640		J 731
090	QUINOLINE, 1,2-DIHYDRO-6- ETHOXY-2,2,4-TRIMETHYL-	6540	J 152K	J 19
090	QUINOLINE, 6-DODECYL-1,2-DI- HYDRO-2,2,4-TRIMETHYL-	6540	J 158K	J 214
070	QUINONE DIOXIME	2570	J 30K	J 480
070	P-QUINONE DIOXIME	9370	J 119K	J 569
070	P-QUINONE DIOXIME, DIBENZO-	9370	J 118K	J 568
028	R-2 CRYSTALS LATEX ACCELERATOR	6540		J 208
050	REDAX RETARDER	9220	J 230K	J 100
570	REFINED COAL TAR	7640		J 719
130	REOGEN	9220	J 372K	J 363
130	RESINEX L-4 PLASTICIZER	3980	J 487K	J 148