

***WHAT EVERY CHEMICAL
TECHNOLOGIST WANTS TO
KNOW ABOUT...***

Volume VI

POLYMERS AND PLASTICS

Compiled by
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Polymers and Plastics Volume 6

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PREFACE

This reference book is the sixth volume in the set of books entitled WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW . . . SERIES. This compendium serves a unique function for those involved in the chemical industry—it provides the necessary information for making the decision as to which trademark chemical product is most suitable for a particular application.

The chemicals included in this sixth book of the series are polymers and plastic materials, however, complete cross-referencing is provided for the multiple functions or classification of all the chemicals.

The first section which is the major portion of each volume contains the most common generic name of the chemicals as the main entry. All these generic entries are in alphabetical order. Synonyms for these chemicals are then listed. The CTFA name appears alongside the appropriate generic name. The structural and/or molecular formula of the chemical is listed whenever possible. The generic chemical is sold under various tradenames and these are listed here in alphabetical order for ease of reference along with their manufacturer in parentheses. *Modifications/Specialty Grades* lists those tradenames that contain or omit additives so that they are used for a variety of specialty purposes. The *Category* subheading classifies the polymer by thermoplastic and/or thermoset types, synthetic rubber, or by functionality, as appropriate. The *Processing* category lists the tradenames that have been formulated to be used for specific or generalized plastics processing. Because of differences in form, activity, etc., individual tradenames of the generic chemical are used in particular applications more frequently. These are delineated in the *Applications* section. The differences in properties, toxicity/handling, storage/handling, and standard packaging are specified in the subsequent sections wherever distinguishing characteristics are known.

The second section of the volume TRADENAME PRODUCTS AND GENERIC EQUIVALENTS helps the user who only knows a chemical by one tradename to locate its main entry in section 1. The user can look up the tradename in this section of the book and be referred to the appropriate, main-entry, generic chemical name.

The third section GENERIC CHEMICAL SYNONYMS AND CROSS REFERENCES provides a way of locating the main entries by knowing only one of the synonyms.

NOTE

The information contained in this series is accurate to the best of our knowledge; however, no liability will be assumed by the publisher for the correctness or comprehensiveness of such information. The determination of the suitability of any of the products for prospective use is the responsibility of the user. It is herewith recommended that those who plan to use any of the products referenced seek the manufacturer's instructions for the handling of that particular chemical.

OTHER BOOKS BY MICHAEL AND IRENE ASH

A Formulary of Paints and Other Coatings, Volumes I and II
A Formulary of Detergents and Other Cleaning Agents
A Formulary of Adhesives and Sealants
A Formulary of Cosmetic Preparations
The Thesaurus of Chemical Products, Volumes I and II
Encyclopedia of Industrial Chemical Additives, Volumes I-IV
Encyclopedia of Surfactants, Volumes I-IV
Encyclopedia of Plastics, Polymers and Resins, Volumes I-IV
What Every Chemical Technologist Wants to Know About. . .
 Volume I—Emulsifiers and Wetting Agents
 Volume II—Dispersants, Solvents and Solubilizers
 Volume III—Plasticizers, Stabilizers and Thickeners
 Volume IV—Conditioners, Emollients, and Lubricants
 Volume V—Resins
Chemical Products Desk Reference

ABBREVIATIONS

@	..... at
anhyd.	..... anhydrous
APHA	..... American Public Health Association
approx.	..... approximately
aq.	..... aqueous
ASTM	..... American Society for Testing and Materials
avg.	..... average
B.P.	..... boiling point
Btu	..... British thermal unit
C	..... degrees Centigrade
CAS	..... Chemical Abstracts Service
cc	..... cubic centimeter(s)
CC	..... closed cup
cm	..... centimeter(s)
cm ³	..... cubic centimeter(s)
COC	..... Cleveland Open Cup
compd.	..... compound, compounded
conc.	..... concentrated, concentration
cP, cps	..... centipoise
cs, cSt	..... centistokes
CTFA	..... Cosmetic, Toiletry and Fragrance Association
DEA	..... diethanolamine
disp	..... dispersible, dispersion
dist	..... distilled
DOT	..... Department of Transportation
DW	..... distilled water
EO	..... ethylene oxide
equiv.	..... equivalent
F	..... degrees Fahrenheit
F.P.	..... freezing point
FDA	..... Food and Drug Administration
ft ³	..... cubic foot, cubic feet
g	..... gram(s)
gal	..... gallon(s)
HLB	..... hydrophile-lipophile balance
insol.	..... insoluble
IPA	..... isopropyl alcohol
kg	..... kilogram(s)
l, L	..... liter(s)
lb	..... pound(s)
max	..... maximum
M.D.	..... mold direction
MEA	..... monoethanolamine
MEK	..... methyl ethyl ketone
mfg.	..... manufacture
MIBK	..... methyl isobutyl ketone
min	..... minute(s)
min.	..... mineral, minimum
MIPA	..... monoisopropanolamine
misc.	..... miscible

ml	.....	milliliter(s)
mm	.....	millimeter(s)
M.P.	.....	melting point
M.W.	.....	molecular weight
NF	.....	National Formulary
no.	.....	number
o/w	.....	oil-in-water
OC	.....	open crucible
PEG	.....	polyethylene glycol
pH	.....	hydrogen-ion concentration
pkgs	.....	packages
PMCC	.....	Pensky Marten closed cup
POE	.....	polyoxyethylene, polyoxyethylated
POP	.....	polyoxypropylene
PPG	.....	polypropylene glycol
pt.	.....	point
R&B	.....	Ring & Ball
RD	.....	Recognized Disclosure
ref.	.....	refractive
rpm	.....	revolutions per minute
R.T.	.....	room temperature
s	.....	second(s)
sol.	.....	soluble, solubility
sol'n.	.....	solution
sp.gr.	.....	specific gravity
SS	.....	stainless steel
std.	.....	standard
SUS	.....	Saybolt Universal seconds
TCC	.....	Taggart closed cup
T.D.	.....	transverse direction
TEA	.....	triethanolamine
tech.	.....	technical
temp.	.....	temperature
theoret.	.....	theoretical
TLV	.....	threshold limit value
TOC	.....	Taggart open cup
UL	.....	Underwriter's Laboratory
USP	.....	United States Pharmacopoeia
uv, UV	.....	ultraviolet
veg	.....	vegetable
visc.	.....	viscosity, viscous
w/o	.....	water-in-oil
wt	.....	weight
≈	approximately equal to
<	less than
>	greater than
≤	less than or equal to
≥	greater than or equal to

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Acrylamides copolymer (CTFA)

TRADENAME EQUIVALENTS:

Reten 521 [Hercules]

Rheolate 1 [NL Treating]

CATEGORY:

Gelling agent, thickener, flocculating agent, retention aid, slip agent, antistat, film former, suspending agent, crosslinking agent

APPLICATIONS:

Industrial applications: adhesives (Rheolate 1; Reten 521); coatings (Rheolate 1); latexes (Rheolate 1); paints (Rheolate 1); paper and pulp industry (Reten 521)

PROPERTIES:

Form:

Emulsion (Rheolate 1)

Powder (Reten 521)

Color:

White (Reten 521)

Milky white (Rheolate 1)

Composition:

30% nonvolatiles in water (Rheolate 1)

GENERAL PROPERTIES:

Ionic Nature:

Anionic (Reten 521)

Solubility:

Sol. in alkali (Rheolate 1)

Dissolves readily in water (Reten 521)

Density:

1.07 g/cm³ (Rheolate 1)

705 kg/m³ (Reten 521)

Visc.:

3300 cps (1%) (Reten 521)

Acrylamide/sodium acrylate copolymer (CTFA)

SYNONYMS:

2-Propenamide, polymer with 2-propenoic acid, sodium salt

2-Propenoic acid, sodium salt, polymer with 2-propenamide

EMPIRICAL FORMULA:

$(C_3H_5NO \cdot C_3H_4O_2 \cdot Na)_x$

CAS No.:

25085-02-3

TRADENAME EQUIVALENTS:

Reten 421, 423, 425 [Hercules]

CATEGORY:

Thickener, suspending agent, flocculant, slip agent, antistat, film-former, adhesive, crosslinking agent

PROPERTIES:

Form:

Powder (Reten 421, 423, 425)

GENERAL PROPERTIES:

Ionic Nature:

Anionic

Solubility:

Sol. in warm or cold water (Reten 421, 423, 425)

Acrylates/steareth-20 methacrylate copolymer (CTFA)

TRADENAME EQUIVALENTS:

Acrysol ICS-1 [Rohm & Haas]

CATEGORY:

Thickener

APPLICATIONS:

Consumer products: cosmetics/toiletries (Acrysol ICS-1); household cleaners (Acrysol ICS-1)

Industrial applications: industrial cleaners (Acrysol ICS-1)

PROPERTIES:

Form:

Liquid emulsion (Acrysol ICS-1)

GENERAL PROPERTIES:

Solubility:

Sol. in alkali (Acrysol ICS-1)

Acrylonitrile-butadiene copolymer

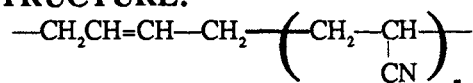
SYNONYMS:

Acrylonitrile rubber
Acrylonitrile-butadiene rubber
Butadiene-acrylonitrile copolymer
NBR
Nitrile-butadiene rubber
Nitrile rubber

EMPIRICAL FORMULA:



STRUCTURE:



TRADENAME EQUIVALENTS:

Chemigum NBR Polymers [Goodyear]
Darex 110L [W.R. Grace]
Hycar 1312, 1422, 1422X8, 1452P50, Butadiene-Acrylonitrile Rubber, Nitrile, Nitrile Latices [Goodrich]
Krynac 19.65, 21.65, 25.65, 27.50, 29.60, 32.55, 34.35, 34.50, 34.80, 34.140, 34.E50, 34.E80, 38.50, 40.65, 45.55, 50.75, 800, 803, 810, 822, 825, 826, 826, 843 [Polysar]
Nobestos/D-7280 [Rogers]
Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810 [Bayer AG]
Perbunan N Latex 1590, 3090, 2818, 3310, 3310HD, 3810, 3415M, T, VT [Bayer AG]

MODIFICATIONS/SPECIALTY GRADES:

Carboxy-modified:

Hycar Nitrile

Cross-linked:

Krynac 810

DOP-modified:

Krynac 843 (50 phr DOP)

CATEGORY:

Synthetic rubber

PROCESSING:

Calendering:

Krynac 803, 810

Compression molding:

Krynac 800

Extrusion:

Krynac 34.E50, 34.E80, 810

Acrylonitrile-butadiene copolymer (cont'd.)

Injection molding:

Krynac 27.50, 29.60, 34.35, 822, 825, 826, 827

APPLICATIONS:

Automotive applications: brake/clutch linings (Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810; Perbunan N Latex 1590, 2818, 3090, 3310, 3310 HD, 3415 M, 3810, T, VT); door panels (Chemigum NBR Polymers); fuel diaphragms (Krynac 50.75); timing chain bumper (Hycar Nitrile)

Consumer products: footwear (Chemigum NBR Polymers; Hycar Butadiene-Acrylonitrile Rubber; Krynac 34.35, 34.50, 803, 826; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810)

Electrical/electronic industry: cable and wire jacketing (Chemigum NBR Polymers; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810)

Functional additives: binder (Perbunan N Latex 1590, 2818, 3090, 3310, 3310 HD, 3415 M, 3810, T, VT); impact modifier (Krynac 810); plasticizer (Hycar 1312, 1422, 1422X8, 1452P50, Butadiene-Acrylonitrile Rubber; Krynac 34.140, 810, 843); viscosity modifier (Krynac 34.140)

Industrial applications: adhesives (Hycar Nitrile Latices; Krynac 38.50; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); belting/belt covers (Krynac 19.65, 21.65, 32.55, 34.50, 38.50, 800, 803, 825; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); coatings (Hycar Nitrile Latices); conveyor belts (Hycar Butadiene-Acrylonitrile Rubber); diaphragms (Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); dipped goods (Perbunan N Latex 1590, 2818, 3090, 3310, 3310 HD, 3415 M, 3810, T, VT); drive wheels (Hycar Nitrile); fabric proofings (Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810; Perbunan N Latex 1590, 2818, 3090, 3310, 3310 HD, 3415 M, 3810, T, VT); friction stocks (Krynac 34.35); gaskets/seals (Krynac 25.65, 32.55, 40.65, 800, 822; Nobestos/D-7280; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810; Perbunan N Latex 1590, 2818, 3090, 3310, 3310 HD, 3415 M, 3810, T, VT); inks (Hycar Nitrile Latices); insulation (Chemigum NBR Polymers); mechanical goods (Krynac 843); molded goods (Krynac 27.50, 29.60, 34.35, 826, 287); oil seals (Hycar Butadiene-Acrylonitrile Rubber); packings (Krynac 34.50, 34.80, 38.50, 40.65); paper and felt industries (Darex 110L; Hycar Nitrile Latices); paper coatings (Perbunan N Latex 1590, 2818, 3090, 3310, 3310 HD, 3415 M, 3810, T, VT); petroleum industry (Krynac 19.65, 21.65, 40.65, 825); plastics modification (Hycar 1422, 1422X8, 1452P50, Butadiene-Acrylonitrile Rubber; Krynac 810); plastisols (Hycar 1312); printer rolls/blankets (Chemigum NBR Polymers; Krynac

Acrylonitrile-butadiene copolymer (cont'd.)

32.55, 34.50, 34.80, 50.75, 800; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); pumps (Krynac 822, 826); rollers/roll covers (Hycar Butadiene-Acrylonitrile Rubber, Nitrile; Krynac 19.65, 21.65, 25.65, 34.35, 34.50, 34.E50, 34.E80, 38.50, 803, 843; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); rubber (Hycar 1312); sponge rubber (Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); textile applications (Hycar Nitrile Latices); textile coatings (Perbunan N Latex 1590, 2818, 3090, 3310, 3310 HD, 3415 M, 3810, T, VT); tubing/hoses/fuel hoses (Hycar Butadiene-Acrylonitrile Rubber; Krynac 25.65, 27.50, 29.60, 34.50, 34.80, 34.E50, 34.E80, 40.65, 45.55, 800, 827; Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); valves (Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810); vibration damping (Perbunan N 1807 NS, N 2802 NS, N 2807 NS, N 2810, N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810)

Marine equipment: fuel hose (Krynac 45.55, 50.75)

PROPERTIES:

Form:

Liquid (Chemigum NBR Polymers; Hycar 1312)

Powder (Hycar 1422, 1422X8, 1452P50, Butadiene-Acrylonitrile Rubber)

Solid (Hycar Butadiene-Acrylonitrile Rubber, Nitrile)

Bales (Perbunan N 2818 NS, N 3302 NS, N 3307 NS, N 3310, N 3312 NS, N 3807 NS, N 3810)

Crumb (Perbunan N 2818 NS, N 3810)

Composition:

15% ACN (Perbunan N Latex 1590)

18 ± 1% ACN (Perbunan N 1807 NS)

19% bound ACN (Krynac 19.65)

21% bound ACN (Krynac 21.65)

25% bound ACN (Krynac 25.65)

27% ACN (Perbunan N Latex 2818); 27% bound ACN (Krynac 27.50)

28 ± 1% ACN (Perbunan N 2802 NS, N 2807 NS, N 2810, N 2818 NS)

29% bound ACN (Krynac 29.60, 827)

30% ACN (Perbunan N Latex 3090, VT); 30% bound ACN (Krynac 810)

32% ACN (Perbunan N Latex 3310, 3310 HD); 32% bound ACN (Krynac 32.55, 822)

33% ACN (Perbunan N Latex 3415 M)

34% bound ACN (Krynac 34.35, 34.50, 34.80, 34.140, 34.E50, 34.E80, 800, 803, 843)

34 ± 1% ACN (Perbunan N 3302 NS, N 3307 NS, N 3310, N 3312 NS)

35% ACN (Perbunan N Latex T)

36% bound ACN (Krynac 825, 826)

37% ACN (Perbunan N Latex 3810)

Acrylonitrile-butadiene copolymer (cont' d.)

38% bound ACN (Krynac 38.50)
39 ± 1% ACN (Perbunan N 3807 NS, N 3810)
40% bound ACN (Krynac 40.65)
40% solids (Perbunan N Latex 1590, 3090, 3310 HD)
45% bound ACN (Krynac 45.55)
45% solids (Perbunan N Latex 2818, 3310, 3810, VT)
47% solids (Darex 110L)
47.5% solids (Perbunan N Latex 3415 M)
50% bound ACN (Krynac 50.75)
50% solids (Perbunan N Latex T)

GENERAL PROPERTIES:

Solubility:

Sol. in acetone (Hycar 1312, 1452P50)
Sol. in MEK (Hycar 1312, 1452P50)

Sp. Gr.:

0.96 (Krynac 19.65, 21.65, 25.65, 27.50; Perbunan N 1807 NS)
0.97 (Krynac 29.60, 827)
0.98 (Krynac 32.55, 34.35, 34.50, 34.80, 34.140, 34.E50, 34.E80, 38.50, 800, 803, 810, 822, 825, 826; Perbunan N 2802 NS, N 2807 NS, N 2810, N 2818 NS; Perbunan N Latex 2818, 3810, 3415 M, T)
0.99 (Krynac 40.65; Perbunan N 3302 NS, N 3307 NS, N 3310, N 3312 NS; Perbunan N Latex 1590, 3310, 3310 HD)
0.998 (Perbunan N Latex VT)
0.999 (Perbunan N Latex 3090)
1.00 (Krynac 45.55, 50.75; Perbunan N 3807 NS, N 3810)

Density:

8.4 lb/gal (Darex 110L)

Visc.:

30 cps (Darex 110L)
Mooney 30 ± 5 (ML4, 100 C) (Perbunan N 2802 NS, N 3302 NS)
Mooney 35 (100 C) (Krynac 34.35)
Mooney 38 (100 C) (Krynac 843)
Mooney 40 (100 C) (Krynac 826)
Mooney 45 ± 5 (ML4, 100 C) (Perbunan N 1807 NS, N 2807 NS, N 3307 NS, N 3807 NS)
Mooney 47 (100 C) (Krynac 803, 822, 825)
Mooney 48 (100 C) (Krynac 827)
Mooney 50 (100 C) (Krynac 27.50, 34.50, 34.E50, 38.50)
Mooney 55 (100 C) (Krynac 32.55, 45.55)
Mooney 60 (100 C) (Krynac 29.60, 810)
Mooney 65 (100 C) (Krynac 19.65, 21.65, 25.65, 40.65)
Mooney 65 ± 7 (ML4, 100 C) (Perbunan N 2810, N 3310, N 3810)
Mooney 75 (100 C) (Krynac 50.75)

Acrylonitrile-butadiene copolymer (cont' d.)

Mooney 79 (100 C) (Krynac 800)
Mooney 80 (100 C) (Krynac 34.80, 34.E80)
Mooney 80 ± 5 (MLA, 100 C) (Perbunan 3312 NS)
Mooney 95 ± 7 (MLA, 100 C) (Perbunan N 2818 NS)
Mooney 140 (100 C) (Krynac 34.140)

pH:

4.5–5.5 (Perbunan N Latex 3090)
5.5–6.5 (Perbunan N Latex 3415 M, T)
7.0 (Darex 110L)
7.0–8.0 (Perbunan N Latex 1590)
8.0–9.0 (Perbunan N Latex VT)
10–12 (Perbunan N Latex 2818, 3310, 3310 HD, 3810)

Surface Tension:

40 dynes/cm (Darex 110L)

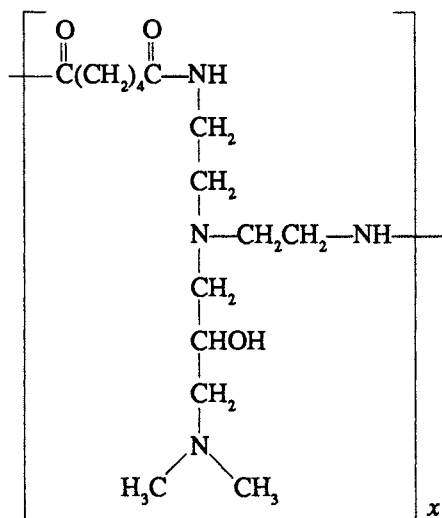
MECHANICAL PROPERTIES:

Tens. Str.:

13.8 MPa (Nobestos/D-7280)

Adipic acid/dimethylaminohydroxypropyl diethylenetriamine copolymer (CTFA)

STRUCTURE:



Adipic acid/dimethylaminohydroxypropyl diethylenetriamine copolymer (cont'd.)

CAS No.:

61840-27-5

RD No. 977026-96-2

TRADENAME EQUIVALENTS:

Cartaretin F-4, F-8 [Sandoz]

CATEGORY:

Conditioner, wetting agent

APPLICATIONS:

Cosmetic industry preparations: hair products (Cartaretin F-4, F-8); skin care products (Cartaretin F-4, F-8)

Industrial applications: sizing (Cartaretin F-4, F-8)

PROPERTIES:

Form:

Liquid (Cartaretin F-4, F-8)

Color:

Light yellow (Cartaretin F-4)

Amber (Cartaretin F-8)

Odor:

Natural (Cartaretin F-4, F-8)

Composition:

30% active in water (Cartaretin F-4, F-8)

GENERAL PROPERTIES:

Ionic Nature:

Cationic (Cartaretin F-4, F-8)

Solubility:

Sol. in alcohol (Cartaretin F-4, F-8)

Sol. in water (Cartaretin F-4, F-8)

Sp. Gr.:

1.07 (Cartaretin F-4, F-8)

Visc.:

400 cps (Cartaretin F-4)

800 cps (Cartaretin F-8)

F.P.:

-4 C (Cartaretin F-4, F-8)

B.P.:

220 F (Cartaretin F-4, F-8)

Stability:

Very stable (Cartaretin F-4, F-8)

STD. PKGS.:

500 lb fiber drums (Cartaretin F-4, F-8)

**WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS**

Rexene 6310C25, 9401C2 [Rexene Products]—Polypropylene, calcium carbonate filled
Rexene 6310T2, 6310T4, 9400T2 [Rexene Products]—Polypropylene, talc filled
Rexene 9234, 9400, 9401, 9402, 9403, 4903E, 9500 [Rexene Products]—Polypropylene
Rezolin 164, 170 [Hexcel/Rezolin]—Polyurethane, thermoset, polyether-based
Rezolin 185N [Hexcel/Rezolin]—Polyurethane, thermoset
Rheolate 1 [NL Treating]—Acrylamides copolymer
Rilsan BECNO, BECVO P40 TL, BESHVO, BESN Black T, BESN F15, BESNO,
BESNO P20, BESNO P40, BESNO P40 TL, BESNO TL, BESVO, BMN F15,
BMN F25, BMNO, BMNO P20, BMNO P40, BMNY BZ TL, BMV Black T,
KMOVOTL, RDP15-10 Natural, RDP-17-1 Dispersion Coating, RDP Pigmented
[Rilsan]—Nylon 11
Rilsan BZM23G9, BZM43G9 [Rilsan]—Nylon 11, glass/graphite reinforced
Rilsan BZM300 [Rilsan]—Nylon 11, glass reinforced
RTP 100GB10, 100GB20, 100GB30, 100GB40, 101, 101CC, 101FR, 101 SP Foamed,
103, 103CC, 103 SP Foamed, 105, 105CC, 105CC FR, 105 SP Foamed, 107, 107CC
[Fiberite]—Polypropylene, glass reinforced
RTP 100T10 or 131, 100T20 or 128, 100T30 or 132, 100T40 or 127 [Fiberite]—
Polypropylene, talc filled
RTP 140, 141, 142, 143 [Fiberite]—Polypropylene, calcium carbonate filled
RTP 150, 199x22898, 199x23835, 199x28016 [Fiberite]—Polypropylene
RTP 175, 175X, 177, 178, 178X [Fiberite]—Polypropylene, glass/mineral reinforced
RTP 200FR [Fiberite]—Nylon 6/6
RTP 200H-FR, 204H-FR, 205H-FR [Fiberite]—Nylon
RTP 201, 201FR, 202FR, 203, 203FR, 204FR, 204GB FR, 205, 205FR, 205TFE5,
205TFE15, 205TFE20, 207, 209 [Fiberite]—Nylon 6/6, glass reinforced
RTP 201A, 203A, 205A, 207A, 209A, 299x27567 [Fiberite]—Nylon 6, glass reinforced
RTP 201B, 203B, 205B, 207B [Fiberite]—Nylon 6/10, glass reinforced
RTP 201C, 203C, 205C, 207C [Fiberite]—Nylon 11, glass reinforced
RTP 201D, 203D, 205D, 207D [Fiberite]—Nylon 6/12, glass reinforced
RTP 201H, 203H, 205H, 207H [Fiberite]—Nylon, glass reinforced
RTP 201P25, 203P25 [Fiberite]—Nylon 6/6, glass/carbon reinforced
RTP 202M, 203GB20, 203M GB20 [Fiberite]—Nylon 6/6, glass/mineral reinforced
RTP 203H-CF15, 204H-CF10 [Fiberite]—Nylon, carbon reinforced
RTP 225, 227 [Fiberite]—Nylon 6/6, mineral/talc reinforced
RTP 227FR [Fiberite]—Nylon 6/6, mineral reinforced
RTP 283, 285, 285P, 287 PAN, 287P [Fiberite]—Nylon 6/6, carbon reinforced
RTP 700FR [Fiberite]—Polyethylene
RTP 701, 703, 705, 707 [Fiberite]—Polyethylene (HDPE, glass reinforced)
RTP 1201-80D, 1203-80D, 1205-80D, 1207-80D [Fiberite]—Polyurethane, thermoplas-
tic, glass-reinforced
Rucoblend 3-6, 8-289, 8-436C, 8-451B, 8-1241B, 8-1251, 8-1314, 8-1311K, 9-17, 55B,
55E, 103, 105, 161J, 172A, 179A, 207, 247, 300, 309A, 500, 501, 508F, 600, 601A,

TRADENAME PRODUCTS AND GENERIC EQUIVALENTS

2117G, 2160, 2785A, 2831, 3500 [Ruco Polymer]—Polyvinyl chloride
Rucodur 1500, 1503, 1504, 1505, 1706, 1707, 1803 [Ruco Polymer]—Polyvinyl chloride
Rucodur 1505 [Ruco Polymer]—Polyvinyl chloride
Rucon B-221, B-253, B-282, B-341 [Ruco Polymer]—Polyvinyl chloride
Rucothane 2010L, 2030L, 2060L, 3000L, 3104, 3105, 3106, 5000L, 5100, CO-1-620,
CO-A-640, CO-A-670/671, CO-A-710, CO-A-819L, CO-A-832L, CO-A-904L,
CO-A-2880 FR, CO-A-2885 FR, CO-A-3907, CO-A-3908L, CO-A-3982L, CO-
A-3983L, CO-A-4041L, CO-A-4078, CO-A-5002L, CO-A-5054, CO-B-4030L
[Occidental]—Polyurethane, thermoplastic
Rucothane CO-A-610 [Occidental]—Polyurethane, thermoplastic, polyester-based
Rucothane CO-A-5069 [Occidental]—Polyurethane, thermoplastic, polyether-based
RX 340, 350, 352 [Rogers]—Phenol-formaldehyde resin, cellulose/graphite-filled
RX 342 [Rogers]—Phenol-formaldehyde resin, cellulose/TFE-filled
RX 363 [Rogers]—Phenol-formaldehyde resin, asbestos/TFE-filled
RX 429, 448, 525, 950 [Rogers]—Phenol-formaldehyde resin, cellulose-filled
RX 431, 475 [Rogers]—Phenol-formaldehyde resin, fabric-reinforced
RX 462, 465, 466, 467, 468, 490, 495 [Rogers]—Phenol-formaldehyde resin, asbestos-
filled
RX 468A [Rogers]—Phenol-formaldehyde resin, asbestos-filled
RX 610N, 611, 625, 630, 650, 655, 660, 842, 850, 862, 865, 866D, 867, 867D [Rogers]—
Phenol-formaldehyde resin, glass-reinforced
RX 640, 655A, 867A [Rogers]—Phenol-formaldehyde resin, glass-reinforced
Sag Silicone Antifoam 10, 30, 100, 720 [Union Carbide]—Dimethicone
SB522/1S Film [Hercules]—Polypropylene
SCC-24, -28, -54, -58 [Stauffer]—Polyvinyl chloride
SCC-40, -52 [Stauffer]—Polyvinyl chloride (vinyl chloride/vinyl acetate copolymer)
SCC-133, -156, -421 [Stauffer]—Polyvinyl chloride (vinyl chloride/vinyl acetate copoly-
mer)
SCC-608, -614, -616, -676, -676P, -686 [Stauffer]—Polyvinyl chloride
Serpul QPA 150 [Servo]—Ammonium polyacrylate
Serpul QPA 160 [Servo]—Sodium polyacrylate
SF 18, 69, 81, 96, 97, 1093 [General Electric]—Dimethicone
SF 1173, 1202, 1204 [General Electric]—Cyclomethicone
SF 1188 [General Electric]—Dimethicone copolyol
Shell 5225, 5384, 5419, 5431, 5520, 5524, 5550, 5610, 5820, 5824S, 5840, 5864, 5944S
[Shell]—Polypropylene
Shell 7129, 7221, 7328, 7521, 7522, 7525, 7623, 7627, 7635, 7912 [Shell]—Polypro-
pylene
Shell DX6016, DX6020 [Shell]—Polypropylene
Shell Polybutylene 0200, 0300, 0400, 0700, 1600A, 4101, 4103, 4110, 4121, 4127, 4128,
8240, 8640 [Shell]—Polyisobutene
Silicone AF-10FG, AF-10 IND, AF-30 FG, AF-30 IND, AF-600M [Harcros]—Dimeth-

WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS

icone

Silicone C111 [ICI Specialty]—Dimethicone
Silicone Fluid 200, 203, 225, 230 [Dow Corning]—Dimethicone
Silicone Mold Release SEM-35 [Harcros]—Dimethicone
Silicone Release Agent #5038 [Polymer Research Corp. of Amer.]—Dimethicone
SM 2061, 2140, 2155, 2162 [General Electric]—Dimethicone
Sokalan CP 5, CP 5 Powder, CP 7, CP 8, CP 10, CP 10S, CP 13S, CP 45, PA 15, PA 20,
PA 20PN, PA 25 PN, PA 30, PA 40, PA 40 Powder, PA 50, PA 70 PN, PA 80 [BASF
AG]—Sodium polyacrylate
Sokalan HP-50 [BASF AG]—Polyvinylpyrrolidone
Solidur 10 100, 10 100 IV 20, 10 802 AST, 10 Color Series, 10 DS Series, 25, Ceram P,
Marble [Solidur Plastics] Polyethylene (UHMW-PE)
SP-8014 [Schenectady]—Phenol-formaldehyde resin
Specflex [Dow]—Polyurethane, thermoset
Spectrim 5, 15, 25S, 25W, 35S, 35W, 50S, 50W, MM300, MM353, Polyurea HF,
Polyurea HT, SF500, SP400 [Dow]—Polyurethane, thermoset
SR 80, SR 100, SR 120 [Rilsan]—Nylon 11, carbon or carbon/glass reinforced
Stat-Kon AS-F, AS-FE, BLM, FE [LNP]—Polyethylene (HDPE)
Stat-Kon H [LNP]—Nylon 11, carbon reinforced
Stat-Kon IC-1006 [LNP]—Nylon 6/12, carbon reinforced
Stat-Kon M [LNP]—Polypropylene
Stat-Kon M-1 HI, M-2, ME [LNP]—Polypropylene, carbon reinforced
Stat-Kon MF-15 [LNP]—Polypropylene, carbon/glass reinforced
Stat-Kon MM-3340 [LNP]—Polypropylene, carbon/mica reinforced
Stat-Kon PC-1006 [LNP]—Nylon 6, carbon reinforced
Stat-Kon QC-1002, QC-1006 [LNP]—Nylon 6/10, carbon reinforced
Stat-Kon R, RC-1002, RC-1004, RC-1004 FR, RC-1006, RC-1006 HI, RCL-4036, RCL-
4042, RCL-4536 [LNP]—Nylon 6/6, carbon reinforced
Stat-Kon R-15 [LNP]—Nylon 6/6, glass reinforced
Stat-Kon RCF-1006, RF-15 [LNP]—Nylon 6/6, glass/carbon reinforced
Stat-Kon T [LNP]—Polyurethane, thermoplastic, carbon powder grade
Stat-Kon VC-1003 [LNP]—Nylon, carbon reinforced
Stepanfoam A-210, AX-64, AX-66, BX-105 Series, BX-150-5, BX-250 (A-D) Series,
BX-289, BX-316-3, BX-316-5, BX-341, Bx-341A, BX-341B, BX-345, BX-350-
7, BX-351, BX-352, BX-352P, BX-352M, BX-359, BX-364, BX-369, BX-370,
BX-372-2, C-600 Series, F-202, F-302, F-506, FX-250, G Series, H-100 Series, H-
102N, H-402N, H-602N, HC-2/30, HC-2/40, HC-3/40, HC-4/60, HC-5/60, HC-9/
10 Series, HC-17/40, HW-8/25, HW-8/50, HW-10/25, HW-11/60, HW-12/25,
HW-16/60, HW-20/60, MW-20/20, P-502, P-506, PF-15, PR-5, PR-5-O, R-222/R-
109, R-223/R-110, R-226/R-112, R-231G/R-110, R-244, R-245, R-246, R-247,
SF-3, SF-5/60, SX-159 Series, SX-195A, SX-202, SX-209J, SX-211, SX-214, SX-
215, SX-216, SX-217, SX-218A, SX-219 [Stepan]—Polyurethane, thermoset

TRADENAME PRODUCTS AND GENERIC EQUIVALENTS

Stepanfoam F-403 [Stepan]—Polyurethane, thermoset, polyester-based
STX Nylon [Allied-Signal]—Nylon, glass reinforced
Stycast CPC-16, CPC-17 [Emerson & Cuming]—Polyurethane, thermoset
SWS-101, -230 Series, -231, -232, -235 [Wacker Silicones]—Dimethicone
SWS-03314 [Wacker Silicones]—Cyclomethicone
Tamol 819, 819L-43, L Conc., SD, SN [Rohm & Haas]—Sodium polynaphthalene sulfonate
Tamol NH 3901, NH 7519, NH 9103, NN, NN 2406, NN 2901, NN 4501, NNO, NNOK [BASF AG]—Sodium polynaphthalene sulfonate
Tek Tan ND, NL [Hamblet & Hayes]—Sodium polynaphthalene sulfonate
Tenite Polyethylene [Eastman]—Polyethylene
Tenite Polypropylene [Eastman]—Polypropylene
Texalon 600A, 600A HS, 600A NU, 600A PL-2, 600A Zip 1, 600A Zip 3, 670A, 680A, 1106, 1108, 1110A PL, 1110A PL HS, 1203D, XP-1296 [Texapol]—Nylon 6
Texalon 1200A, 1200A Black 11, 1200A HS, 1200AXL, 1200A ZIP-1, 1200A ZIP-6, 1308A, 1310, XP-1317 [Texapol]—Nylon 6/6
Texalon GF 600 A(6-33), GF 604 (15 and 35) [Texapol]—Nylon 6, glass reinforced
Texalon GF 1200A (13-40), GF 1308A (13-33), GF 1310 (13 and 33) [Texapol]—Nylon 6/6, glass reinforced
Texalon GMF 600-40 [Texapol]—Nylon 6/6, glass/mineral reinforced
Texalon MF 1200A-40, MF 1200A1-40 [Texapol]—Nylon 6/6, mineral reinforced
Thermocomp FF-1004, FF-1006, FF-1008 [LNP]—Polyethylene (HDPE), glass reinforced
Thermocomp HF-1006 [LNP]—Nylon 11, glass reinforced
Thermocomp IF-1002, IF-1004, IF-1006, IF-1008, IF-100-10, IF-100-12 [LNP]—Nylon 6/12, glass reinforced
Thermocomp MF-1002, MF-1002HI, MF-1004, MF-1004FR, MF-1004HI, MF-1006, MF-1006HI, MF-1008, MF-1008HI, MFX-1004HS, MFX-1006HS, MFX-1008HS [LNP]—Polypropylene, glass reinforced
Thermocomp PC-1006 [LNP]—Nylon 6, carbon reinforced
Thermocomp PF-1002, PF-1002HI, PF-1004, PF-1004HI, PF-1006, PF-1006FR, PF-1006HI, PF-1008, PF-1008HI, PF-100-10, PF-100-12, PFL-4216, PFL-4218 [LNP]—Nylon 6, glass reinforced
Thermocomp QC-1006 [LNP]—Nylon 6/10, carbon reinforced
Thermocomp QF-1002, QF-1004, QF-1006, QF-1006FR, QF-1008, QF-100-10, QF-100-12 [LNP]—Nylon 6/10, glass reinforced
Thermocomp R-1000, R-1000FR-HS, RL-4040, RL-4310, RL-4540 (Migralube Resin) [LNP]—Nylon 6/6
Thermocomp RC-1002, RC-1004, RC-1006, RC-1006HI, RC-1006PC Pitch, RC-1008, RCL-4036, RCL-4536 [LNP]—Nylon 6/6, carbon reinforced
Thermocomp RF-1002, RF-1002HI, RF-1004, RF-1004FR-HS, RF-1004HI, RF-1006, RF-1006FR-HS, RF-1006HI, RF-1008, RF-1008HI, RF-100-10, RF-100-12, RFL-

**WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS**

4216, RFL-4218 [LNP]—Nylon 6/6, glass reinforced
Thermocomp SF-1006, SF-100-10 [LNP]—Nylon 12, glass reinforced
Thermocomp TF-1004, TF-1006, TF-1008 [LNP]—Polyurethane, thermoplastic, glass-reinforced
Thermocomp XF-1004, XF-1006, XF-1008, XFL-4036 [LNP]—Nylon, glass reinforced
Thickener L, LN [GAF]—PVM/MA copolymer
Trymer 160, 190, 190-3, 190-4, 210, 9501, 9501-3, 9501-4, 9501-6 [Dow]—Polyurethane, thermoset
1900 UHMW Polymers [Hercules]—Polyethylene (UHMW-PE)
Ultralite [Herbert Lushan Plastics]—Polyvinyl chloride
Ultramid A3, A3K, A3KN, A3 Pellets 24, A3R, A3SK, A3W, A4, A4H, A4K, A5 B3, B3K, B3L, B3S, B4, B4K, B5, B5W, B35, B35M, B35MF01, B35SK, B35W, KR 4205, KR 4405, KR 4406, KR 4407, KR 4409, KR 4411, KR 4412, S3, S3K, S4 [Badische]—Nylon
Ultramid A3EG5, A3EG6, A3EG7, A3EG10, A3G5, A3G6, A3G7, A3HG5, A3WG5, A3WG6, A3WG7, A3WG10, A3X1G7, A3X1G10, A3XG5, A3XG7, B3EG5, B3EG6, B3EG7, B3EG10, B3G5, B3G5HS, B3G6, B3G6HS, B3G7, B3G7HS, B3G10, B3WG5, B3WG6, B3WG7, B3WG10, B35G3, KR 4445/1, KR 4447/1 [Badische]—Nylon, glass reinforced
Ultramid B3WM601, B3WM602, KR 4250, KR 4446, KR-B3X2V6 [Badische]—Nylon, mineral reinforced
Ultramid KR 4448, KR 4450 [Badische]—Nylon, glass/mineral reinforced
Ultramid KR 4449 [Badische]—Nylon, glass/ballotini reinforced
Ultramid KR 4609 [Badische]—Nylon 6/9
Ultramid KR 4645 [Badische]—Nylon 6 and 6/6
Ultramid KR 4650, KR 4652 [Badische]—Nylon 6 and 6/6, mineral reinforced
Ultramid KR 4651 [Badische]—Nylon 6 and 6/6, glass/mineral reinforced
Ultramid KR 4653 [Badische]—Nylon 6 and 6/6, glass reinforced
Ultra-Wear UHMWPE [Polymer Corp.]—Polyethylene (UHMW-PE)
Union Carbide Dimethyl Fluid L-45 [Union Carbide]—Dimethicone
Union Carbide LE-45, LE-46, LE-420, LE-453HS, LE-458HS, LE-461, LE-462, LE-462HS, LE-467, LE-467HS [Union Carbide]—Dimethicone
Unoflex, 100 [Polymer Industries]—Polyurethane, thermoset
UR 101, 102, 103, 104, 105 [Thermoset Plastics]—Polyurethane, thermoset
Uralite 3111, 3113, 3115, 3121, 3121S, 3122, 3124, 3125, 3128, 3130, 3132, 3139, 3140, 3150, 3152, 3154, 3155, 3156, 3158, 3167, 3175 Fastset, 6108, 7250, 7252 [Hexcel/Rezolin]—Polyurethane, thermoset
Varcum 647, 1359, 1364, 4326, 4631, 4727, 9836A, 9874, C-86, DR-406 [Reichhold]—Phenol-formaldehyde resin
Varcum 1417, 1481, 1494, 5145, 5160, 5302, 5485, 6820, 8366 [Reichhold]—Phenol-formaldehyde resin
Vekton 6PA, 6PAG, 6PAM, 6PB, 6XAU [Chemplast]—Nylon 6

TRADENAME PRODUCTS AND GENERIC EQUIVALENTS

Vestolen A3512, A3512 R, A3513, A3515, A4516, A5016 F, A5017, A5018, A5041 R, A5543, A5561, A5561 P, A6012, A6013, A6014, A6016, A6017, A6042 [Huls AG]—Polyethylene (HDPE)

Vestolen P1200, P1200F, P2200, P2200F, P3200, P3200F, P3230 F, P4200, P4200F, P5200, P5200F, P5202, P5204, P5206S, P5212 LF, P6200, P6202, P6206S [Huls AG]—Polypropylene

Vestolen P2300, P2300F, P2330 F, P5400, P5400F, P6421 [Huls AG]—Polypropylene

Vestolen P4700, P4702L, P4800, P4802L, P5800, P5802L, P6500, P6502, P6503, P6522 [Huls AG]—Polypropylene

Vestolen P5232G [Huls AG]—Polypropylene, glass reinforced

Vestolen P5232T, P5272T [Fiberite]—Polypropylene, talc filled

Vestolit B 7021, B 7022, B 7521 [Hüls AG]—Polyvinyl chloride

Vestolit B 7090, B 7092 [Hüls AG]—Polyvinyl chloride (vinyl chloride/vinyl acetate copolymer)

Vestolit E 6003, E 6007, E6017, E 6503, E 6507, E7001, E 7003, E 7004, E 7006, E 7007, E 7008, E 7012, E 7031, E 7033, E 7037, E 8001, E 8003, E 8019, P 1331 K, P 1333 K, P 1341 K, P 1342 K, P 1344 K, P 1345 K 70, P 1345 K 80 [Hüls AG]—Polyvinyl chloride

Vestolit E 7091 [Hüls AG]—Polyvinyl chloride (vinyl chloride/vinyl acetate copolymer)

Vestolit HI E 6077, HI E 6577, HI E 7077 [Hüls AG]—Polyvinyl chloride/elastomer copolymer

Vestolit HI S 6882, HI S 6883, HI S 7587, P 1976 K, P 1982 K [Hüls AG]—Polyvinyl chloride/elastomer copolymer

Vestolit M 5867, M 6067, M 6267, M 6567, M 6867 [Hüls AG]—Polyvinyl chloride

Vestolit S 6058, S 6059, S 6554, S 6555, S 6558, S 6858, S 7054, S 7055, S 7554, S 8054 [Hüls AG]—Polyvinyl chloride

Viscasil 5M, 10M, 60M [General Electric]—Dimethicone

Volatile Silicones 7158, 7207, 7349 [Union Carbide]—Cyclomethicone

Vultamol, SA Liq. [BASF AG]—Sodium polynaphthalene sulfonate

Vydyne 21, 21SP, 21X, 22H, 22HSP, 24 NSL, 24NSP, 25W, 25X, 65B, 66B [Monsanto]—Nylon 6/6

Vydyne 60H [Monsanto]—Nylon 6/9

Vydyne 909 [Monsanto]—Nylon, glass reinforced

Vydyne M-340, M-344, M-345 [Monsanto]—Nylon

Vydyne R-100, R-200, R-220, R-250 [Monsanto]—Nylon, mineral reinforced

Vydyne R-400G [Monsanto]—Nylon 6/6, glass/mineral reinforced

Vydyne R-513, R-513H, R-533, R-533H, R-538H-02, R-543, R-543H [Monsanto]—Nylon 6/6, glass reinforced

Vylor 7264, ME-1791 [DuPont]—Nylon 6/6

Wellamid 2BRH-NW, 21LN2-NNT, 22LH-N, 22LH13-N, 22L-N, 22LN2-N, 220-N, FR22F-N [Wellman]—Nylon 6/6

Wellamid 42LH-N, 42L-N, 42LN2-N [Wellman]—Nylon 6

**WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
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Wellamid FRGF25-66, FRGS25-66, GS25-66, GS40-66, GSF25/15-66 [Wellman]—
Nylon 6/6, glass reinforced

Wellamid GS40-60 [Wellman]—Nylon 6, glass reinforced

Wellamid MR329HS, MR409HS, MR-410HS [Wellman]—Nylon 6/6, mineral rein-
forced

Wellamid MRG30/10 [Wellman]—Nylon 6, glass/mineral reinforced

Wellamid MRG30/10 [Wellman]—Nylon 6/6, glass/mineral reinforced

Wettol D2 [BASF AG]—Sodium polynaphthalene sulfonate

Zytel FR-50 [DuPont]—Nylon 6/6, glass reinforced

Zytel ST FR-80 [DuPont]—Nylon

GENERIC CHEMICAL SYNONYMS AND CROSS REFERENCES

Acrylamide/beta-methacryloxyethyl trimethyl ammonium methosulfate copolymer.
See Polyquaternium-5

Acrylamide/dimethyl diallyl ammonium chloride copolymer. See Polyquaternium-7

Acrylonitrile-butadiene rubber. See Acrylonitrile-butadiene copolymer

Acrylonitrile rubber. See Acrylonitrile-butadiene copolymer

Butadiene-acrylonitrile copolymer. See Acrylonitrile-butadiene copolymer

Chlorinated polyethylene. See under Polyethylene

Chlorinated PVC. See under Polyvinyl chloride

Chloroprene rubber. See Polychloroprene

Chlorosulfonated polyethylene. See under Polyethylene

CR. See Polychloroprene

Cyclic dimethylpolysiloxane. See Cyclomethicone

Cyclic dimethylsiloxane. See Cyclomethicone

Dimethyl diallyl ammonium chloride polymer. See Polyquaternium-6

Dimethylpolysiloxane. See Dimethicone

N,N-Dimethyl-N-2-propenyl-2-propen-1-aminiium chloride, homopolymer. See Polyquaternium-6

N,N-Dimethyl-N-2-propenyl-2-propen-1-aminiium chloride, polymer with 2-propenamide. See Polyquaternium-7

Dimethyl silicone. See Dimethicone

Dimethylsiloxane. See Dimethicone

Dimethylsiloxane-glycol copolymer. See Dimethicone copolyol

EMA. See Ethylene/methyl acrylate copolymer

Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl) oxy]-, methyl sulfate, polymer with 2-propenamide. See Polyquaternium-5

Ethene, homopolymer. See Polyethylene

1-Ethenyl-2-pyrrolidinone, homopolymer. See Polyvinylpyrrolidone

1-Ethenyl-2-pyrrolidinone, polymer with ethenylbenzene. See Styrene/PVP copolymer

Ethylene/acrylic acid copolymer (EAA). See Ethylene/acrylate copolymer

Ethylene/methacrylate copolymer. See Ethylene/acrylate copolymer

Ethylene/methacrylic acid copolymer (EMAA). See Ethylene/acrylate copolymer

2,5-Furandione, polymer with ethene. See Ethylene/maleic anhydride copolymer

2,5-Furandione, polymer with methoxyethylene. See PVM/MA copolymer

WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS

HDPE. See Polyethylene
HMW-HDPE. See Polyethylene
HMW-LDPE. See Polyethylene
LDPE. See Polyethylene
LDPE/vinyl acetate copolymer. See under Polyethylene
LLDPE. See Polyethylene
LMWPE. See Polyethylene
Macrogol 200. See PEG-4
Macrogol 300. See PEG-6
Macrogol 400. See PEG-8
Macrogol 600. See PEG-12
Macrogol 1500. See PEG-6-32
Macrogol 4000. See PEG-75
Macrogol 6000. See PEG-150
MDPE. See Polyethylene
Methyl vinyl ether/maleic anhydride copolymer. See PVM/MA copolymer
NBR. See Acrylonitrile-butadiene copolymer
Neoprene. See Polychloroprene
Nitrile-butadiene rubber. See Acrylonitrile-butadiene copolymer
Nitrile rubber. See Acrylonitrile-butadiene copolymer
Novalac resin. See Phenol-formaldehyde resin
Novolak resin. See Phenol-formaldehyde resin
Nylon 5. See Nylon
Nylon 6/6. See Nylon
Nylon 6/10. See Nylon
Nylon 9. See Nylon
Nylon 11. See Nylon
Nylon 12. See Nylon
PDMS. See Dimethicone
PE. See Polyethylene
PEG 200. See PEG-4
PEG 300. See PEG-6
PEG 400. See PEG-8
PEG 600. See PEG-12
PEG 1000. See PEG-20
PEG 1500. See PEG-6-32
PEG 4000. See PEG-75
PEG 6000. See PEG-150
Phenol-formaldehyde novolak resin. See Phenol-formaldehyde resin
Phenolic resin. See Phenol-formaldehyde resin
POE (4). See PEG-4
POE (6). See PEG-6

GENERIC CHEMICAL SYNONYMS AND CROSS REFERENCES

POE (8). See PEG-8
POE (12). See PEG-12
POE (20). See PEG-20
POE (75). See PEG-75
POE (150). See PEG-150
POE 1500. See PEG-6-32
Poly (11-aminoundecanoic acid). See Nylon 11 under Nylon
Polybutene (CTFA). See Polyisobutene
Polybutylene. See Polyisobutene
Polycaprolactam. See Nylon 6 under Nylon
Poly (dimethyl diallyl ammonium chloride). See Polyquaternium-6
Polydimethylsiloxane. See Dimethicone
Poly (DMDAAC). See Polyquaternium-6
Polyethylene glycol 200. See PEG-4
Polyethylene glycol 300. See PEG-6
Polyethylene glycol 400. See PEG-8
Polyethylene glycol 600. See PEG-12
Polyethylene glycol 1000. See PEG-20
Polyethylene glycol 1500. See PEG-6-32
Polyethylene glycol 4000. See PEG-75
Polyethylene glycol 6000. See PEG-150
Poly(hexamethylene adipamide). See Nylon 6/6 under Nylon
Polyisobutylene. See Polyisobutene
Poly(methyl vinyl ether/maleic anhydride). See PVM/MA copolymer
Poly [oxy (dimethylsilylene)], α -(trimethylsilyl)- ω -methyl-. See Dimethicone
Polyoxyethylene (4). See PEG-4
Polyoxyethylene (6). See PEG-6
Polyoxyethylene (8). See PEG-8
Polyoxyethylene (12). See PEG-12
Polyoxyethylene (12). See PEG-20
Polyoxyethylene (75). See PEG-75
Polyoxyethylene (150). See PEG-150
Polyoxyethylene 1500. See PEG-6-32
Polyoxypropylene (9). See PPG-9
Polyoxypropylene (12). See PPG-12
Polyoxypropylene (17). See PPG-17
Polyoxypropylene (26). See PPG-26
Polyoxypropylene (30). See PPG-30
Polypropylene glycol (9). See PPG-9
Polypropylene glycol (12). See PPG-12
Polypropylene glycol (17). See PPG-17
Polypropylene glycol (26). See PPG-26

**WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS**

Polypropylene glycol (30). See PPG-30
Polyvinyl ether. See Polyvinyl isobutyl ether
Polyvinylidene choride. See Vinylidene chloride copolymer
POP (9). See PPG-9
POP (12). See PPG-12
POP (17). See PPG-17
POP (26). See PPG-26
POP (30). See PPG-30
Povidone. See Polyvinylpyrrolidone
PP. See Polypropylene
PPG (9). See PPG-9
PPG (12). See PPG-12
PPG (17). See PPG-17
PPG (26). See PPG-26
PPG (30). See PPG-30
2-Propenamide, homopolymer. See Polyacrylamide
2-Propenamide, polymer with 2-propenoic acid, sodium salt. See Acrylamide/sodium acrylate copolymer
2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer. See Polyquaternium-6
2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide. See Polyquaternium-7
2-Propenoic acid, homopolymer. See Polyacrylic acid
2-Propenoic acid, 2-methyl-, homopolymer, sodium salt. See Sodium polymethacrylate
2-Propenoic acid, sodium salt, polymer with 2-propenamide. See Acrylamide/sodium acrylate copolymer
Propylene polymer. See Polypropylene
PU. See Polyurethane
PVC. See Polyvinyl chloride
PVI. See Polyvinyl isobutyl ether
PVP (CTFA). See Polyvinylpyrrolidone
2-Pyrrolidinone, 1-ethenyl-, homopolymer. See Polyvinylpyrrolidone
2-Pyrrolidinone, 1-ethenyl-, polymer with ethenylbenzene. See Styrene/PVP copolymer
Quaternium-23. See Polyquaternium-11
Quaternium-39. See Polyquaternium-5
Quaternium-40. See Polyquaternium-6
Quaternium-41. See Polyquaternium-7
Resole. See Phenol-formaldehyde resin
Sebacic acid/hexamethylenediamine condensation product. See Nylon 6/10 under Nylon
Sodium naphthalene-formaldehyde sulfonate. See Sodium polynaphthalene sulfonate
Styrene/vinylpyrrolidone copolymer. See Styrene/PVP copolymer
UHMW-PE. See Polyethylene

GENERIC CHEMICAL SYNONYMS AND CROSS REFERENCES

Urethane polymer. See Polyurethane

VC copolymer. See Vinylidene chloride copolymer

VDC copolymer. See Vinylidene chloride copolymer

Vinyl chloride/vinyl acetate copolymer. See under Polyvinyl chloride

Vinylpyrrolidone/dimethylaminoethylmethacrylate copolymer, reacted with dimethyl sulfate. See Polyquaternium-11

TRADENAME PRODUCT MANUFACTURERS

Akron Chemical Co.

255 Fountain St.
Akron, OH 44304

Akzo Chemie America

Akzo Chemie America/Armak Chemical
300 S. Riverside Plaza
Chicago, IL 60606

Akzo Chemie UK Ltd.
1-5 Queens Rd., Hershham
Waltham-on-Thames
Surrey KT12 5NL UK

Akzo Chemie
PO Box 186
LS Arnhem Netherlands 6800

Akzo Chemie B.V.
POB 975
3800 AZ Amersfoort, Netherlands

Akzo Chemie Italia SpA.
Via Vismara, 20020 Arese
Milano, Italy

Alco Chemical Corp.

909 Mueller Dr.
Chattanooga, TN 37406

Alkaril Chemicals Inc.

Industrial Pkwy., PO Box 1010
Winder, GA 30680

Alkaril Chemicals Ltd.
3265 Wolfedale Road
Mississauga, Ontario L5C 1V8, Canada

Allied Colloids Inc.

One Robinson Lane
Ridgewood, NJ 07450

Allied Colloids Ltd.

PO Box 38, Low Moor, Bradford
Yorkshire BD12 0JZ, UK

Allied-Signal

PO Box 2332R, Columbia Rd. & Park Ave.
Morristown, NJ 07960

Allied Corporation International NV-SA
Haasrode Research Park
B-3030 Heverlee, Belgium

Allied Corporation International NV-SA
International House
Bickenhill Lane
Birmingham B37 7HQ
England

Allied Chemical International Corporation
P.O. Box 99067, Tsimshatsui Post Office
Hong Kong

Alox Corp.

3943 Buffalo Ave., PO Box 517
Niagara Falls, NY 14302

American Cyanamid Co.

American Cyanamid Co./Industrial Chem.
Div.
Berdan Ave.
Wayne, NJ 07470

American Cyanamid Co./
Polymer & Chem. Dept.
Berdan Ave.
Wayne, NJ 07470

Cyanamid B.V.
Postbus 1523, 3000 BM
Rotterdam, The Netherlands

TRADENAME PRODUCT MANUFACTURERS

Cyanamid India Ltd.
Nyloc House, 254-D2 Dr. Annie Besant Rd.
Bombay 400 025 India

Cyanamid Quimica do Brasil Ltda.
Av. Imperatriz Leopoldina, 86
Sao Paulo, Brazil

Cyanamid Taiwan Corp.
8/F Union Commercial Bldg.
137, Nanking E. Rd., Sec. 2
Taipei, Taiwan, R.O.C.

Amoco Chemicals Corp.
200 East Randolph Dr., PO Box 8640A
Chicago, IL 60680

Amoco Chemical Europe S.A.
15, Rue Rothschild
CH-1211 Geneva 21,
Switzerland

Amoco Performance Products,
Japan Ltd.
10th Floor, Tonichi Building
2-31 Roppongi 6-Chome
Minato Ku, Tokyo 106, Japan

Aquatec Quimica S/A
Rua Sampaio Viana, 425, CX. Postal 4885
04004 Sao Paulo Sp., Brazil

**Arco Chemical Co./Div. Atlantic
Richfield Co.—See Sartomer Co.
Inc.**

Arco Chemical Company
Toranomom 37 Mori Bldg., 5th fl.
5-1 Toranomom 3-chome
Minato-ku
Tokyo, 105 Japan

Arco Chemical Company
Windsor Bridge House
1 Brocas Street
Eton, Berkshire
SL4 6BW England

Atochem U.S.A. Inc.
PO Box 159, 13 Sunflower Ave.
Paramus, NJ 07652

Atochem Inc./Polymers Div.
266 Harristown Rd., POB 607
Glen Rock, NJ 07452

Atochem
4, cours Michelet, La Défense 10-Cedex 42
92091 Paris la Défense France

Rilsan Corp./Subsid. of Atochem, France
139 Harristown Rd.
Glen Rock, NJ 07452

Badische Corp.
PO Drawer D
Williamsburg, VA 23187

Bamberger Polymers, Inc.
3003 New Hyde Park Rd.
New Hyde Park, NY 11042

BASF Corp.
100 Cherry Hill Rd.
Parsippany, NJ 07054

BASF Canada Ltd.
PO Box 430
Montreal, Quebec H4L 4V8, Canada

BASF (UK) Ltd.
PO Box 4, Earl Rd., Cheadle Hulme
Cheadle, Cheshire SK8 6QQ, UK

BASF Belgium S.A.
avenue Hamoir-Iaan 14
B-1180 Bruxelles/Brussel
Belgium

BASF AG
ESA/WA-H 201
D-6700 Ludwigshafen, West Germany

BASF Espanola S.A.
Apartado 762
Barcelona 8, Spain

BASF S.A., Compagnie Francaise
MC-NT, 140, Rue Jules Guesde
92303 Levallois-Perret, France

BASF India, Ltd.
Maybaker House, S.K. Ahire Marg., PO
Box 19108
Bombay 400 025 India

WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS

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C.P.O. Box 1757
Toyko 100-91
Japan

Bayer AG
Sitz der Gesellschaft, Leverkusen
Eintragung, Amtsgericht
Leverkusen HRB 1122, Germany

Bayer UK Ltd.
Bayer House, Strawberry Hill
Newbury, Berkshire RG13 1JA, UK

Belding Chemical Industries
1430 Broadway
New York, NY 10018

Calgon Corp.
P.O. Box 1346
Pittsburgh, PA 15230

Cal Polymers, Inc.
2115 Gaylord St.
Long Beach, CA 90813

R.H. Carlson Co.
41 Chestnut St.
Greenwich, CT 06830

Chemplast, Inc.
150 Dey Road
Wayne, NJ 07470

Chemplex Co.
Rolling Meadows, IL 60008

Chevron Chemical Co.
575 Market St.
San Francisco, CA 94105

Chromex Chemical Corp.
19 Clay St.
Brooklyn, NY 11222

Ciba-Geigy Corp.
PO Box 18300
Greensboro, NC 27419

Ciba-Geigy Corp./
Plastics & Additives Div.
Three Skyline Dr.
Hawthorne, NY 10532

Ren Plastics/Ciba-Geigy Corp.
4917 Dawn Ave.
Lansing, MI 48823

Ciba-Geigy Corp.
CH-4002
Basle, Switzerland

Ciba-Geigy PLC
30 Buckingham Gate
London SW1E 6LH, UK

Ciba-Geigy Dyestuffs & Chemicals
Ashton New Road, Clayton
Manchester M11 4AR, UK

Colloids Inc.
394 Frelinghuysen Ave.
Newark, NJ 07114

Compounding Technology, Inc.
3140 Pullman St.
Costa Mesa, CA 92626

Conap Inc.
1405 Buffalo St.
Olean, NY 14760

**Conoco Chemicals/Continental Oil
Co.—See Vista**

Crucible Chemical Co.
POB 6786, Donaldson Center
Greenville, SC 29606

**Cyanamid—See American
Cyanamid**

Dow Chemical Co.
1703 S. Saginaw Rd.
Midland, MI 48640

Dow Chemical Co. Ltd.
Stana Place, Fairfield Ave.
Staines, Middlesex TW18 4SX, UK

TRADENAME PRODUCT MANUFACTURERS

- Dow Chemical Europe S.A.
Bachtobelstrasse 3, CH-8810
Horgen, Switzerland
- Dow Chemical Pacific Limited
P.O. Box 711
Hong Kong
- Dow Corning Corp.**
Box 0994
Midland, MI 48640
- Drew Chemical Corp./Drew Ind.
Div., Ashland Chem. Co.**
One Drew Plaza
Boonton, NJ 07005
- E.I. DuPont de Nemours & Co.**
Nemours Bldg.
Wilmington, DE 19898
- Du Pont Co./
Polymer Prods. Dept.
15990 N. Barkers Landing Rd., POB 19029
Houston, TX 77224
- DuPont Canada
PO Box 26, Toronto Dominion Center
Toronto, Ont. M5K 1B6 Canada
- DuPont (UK) Ltd.
Wedgwood Way, Stevenage
Herts SG1 4QN, UK
- DuPont (UK) Ltd./
Polymer Prods. Dept.
Maylands Ave., Hemel Hempstead
Herts HP2 7DP, UK
- DuPont France
0137, rue de l'Universite
F-75334 Paris Cedex 07
France
- DuPont de Nemours International S.A.
Case Postale CH-1211
Geneva 24, Switzerland
- DuPont Japan Ltd.
P.O. Box 37, Akasaka
Tokyo, 107-91 Japan
- Eastman Chemical Products, Inc./
Subsid. of Eastman Kodak Co.**
PO Box 431
Kingsport, TN 37662
- Eastman Chemical International A.G.
Hemel Hempstead
P.O. Box 66
Kodak House, Station Road
Herts, HP1 1JU England
- Eastman Japan Ltd.
Nishi-Shinbashi Mitsui Bldg.
1-24-14 Nishi-Shinbashi
Minato-Ku, Tokyo 105
Japan
- El Paso Products Co.**
PO Box 3986
Odessa, TX 79760
- Emerson & Cuming—See W.R.
Grace & Co.**
- Emser Industries Inc.**
PO Box 1717
Industrial Park and Corporate Way
Sumter, SC 29151-1717
- Fiberite Corp.**
501-559 W. Third St.
Winona, MN 55987
- Firestone Tire & Rubber Co.**
381 W. Wilbeth Rd.
Akron, OH 44301
- Firestone Plastics Co.
Box 699, Firestone Blvd.
Pottstown, PA 19464
- Firestone Synthetic Rubber & Latex Co.
PO Box 2786, Firestone Park Sta.
Akron, OH 44301
- Freeman Chemical Corp./Subsid.
of H.H. Robertson Co.**
PO Box 247
Port Washington, WI 53074

WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS

GAF Corp./Chemical Products

1361 Alps Rd.
Wayne, NJ 07470

GAF Europe
40 Alan Turing Rd., Surrey Research Park
Guildford, Surrey, UK

General Electric Co.

General Electric Co./Plastics Div.
One Plastics Ave.
Pittsfield, MA 01201

General Electric Co./Silicone Prod. Div.
Mechanicsville Rd.
Waterford, NY 12188

General Electric Plastics B.V.
Plasticslaan 1, P.O. Box 117
4600 AC Bergen op Zoom
The Netherlands

GE Plastics Ltd.
Birchwood Park
Risley, Warrington
Cheshire WA3 6DA
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General Electric (USA) Plastics Japan Ltd.
No. 35 Kowa Building 5F
14-14 Akasaka 1-chome
Minato-ku, Tokyo 107
Japan

Goldschmidt Chemical Corp.

914 Randolph Rd., Box 1299
Hopewell, VA 23860

Goldschmidt AG, Th.
Goldschmidtstr. 100, Postfach 101461
D4300 Essen-1, West Germany

B.F. Goodrich Co.

6100 Oak Tree Blvd.
Cleveland, OH 44131

BFGoodrich Chemical (U.K.) Ltd.
The Lawn
100 Lampton Road
Hounslow, Middlesex TW3 4EB
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BFGoodrich Chemical (Deutschland)
GmbH
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4040 Neuss 1
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Goodyear Tire & Rubber Co.

1144 East Market St.
Akron, OH 44316

Goodyear Canada Inc.
45 Raynes Ave.
Bowmanville, Ontario, Canada

W.R. Grace & Co,

W.R. Grace & Co./Organic Chem. Div.
55 Hayden Ave.
Lexington, MA 02173

Emerson & Cuming/W.R. Grace & Co.
869 Washington St.
Canton, MA 02021

W.R. Grace Ltd.
Northdale House, North Circular Rd.
London NW10 7UH, UK

Graden Chemical Co., Inc.

426 Bryan St.
Havertown, PA 19083

Hamblet & Hayes Co.

PO Box 730, Colonial Rd.
Salem, MA 01970

Harcros Chemicals Inc.

5200 Speaker Rd., PO Box 2383
Kansas City, MO 66110

Harcros Chemicals UK Ltd.
Lankro House
PO Box 1, Eccles
Manchester, M30 0BH, UK

Hart Chemicals Ltd.

256 Victoria Rd. South
Guelph, Ontario N1H 6K8 Canada

Hefti Ltd. Chemical Products

PO Box 1623, CH-8048
Zurich, Switzerland

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Henkel Corp.

480 Alfred Ave.
Teaneck, NJ 07666
Henkel Corp./Process Chemicals
350 Mt. Kemble Ave.
Morristown, NJ 07960

Henkel Chem. (Canada) Ltd.
9550 Ray Lawson Blvd.
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Henkel Chemicals Ltd.
Organic Products Division
Merit House, The Hyde
Edgeware Rd., London NW9 5AB, UK

Henkel Argentina S.A.
Avda. E. Madero Piso 14
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Argentina

Henkel KGaA
Postfach 1100 D-4000
Dusseldorf 1, West Germany

Henkel-Nopco SA, Process Chem. Div.
185 Ave. de Fontainebleau
77310 St. Fargeau
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Herbert Lushan Plastics Corp.

189 Wells Ave.
Newton, MA 02159

Hercules Inc.

Hercules Plaza
Wilmington, DE 19894

Hercules B.V.
8 Veraartlaan, PO Box 5822
2280 HV Rijswijk, The Netherlands

Hercules Ltd., Hercules European Hdqts.
20 Red Lion St.
London WC1R 4PB UK

Hexcel Corp./Chemical Products Div.

215 N. Centennial St.
Zeeland, MI 49464

Hexcel Corp./Rezolin Div.
20701 Nordhoff St.
Chatsworth, CA 91311

Hoechst-Celanese Corp.

Route 202-206 North
Somerville, NJ 08876

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Verhaufkanststoffe, D-6230
Frankfurt (M) 80, West Germany

Hoechst Celanese Plastics Ltd.
78-80 St. Albans Rd.
Watford, Herts
England WD2-4AP

Hoechst Japan
10-33, 4-Chome-Akasaka, Minato-ku
Tokyo, Japan

Huls America Inc.

10 Link Dr.
Rockleigh, NJ 07647

Hüls AG, Chemische Werke
Postfach 1320 D-4370
Marl 1, West Germany

Huls (UK) Ltd.
Cedars House, Farnborough Common
Orpington, Kent BR6 7TE, UK

Hysol Div./The Dexter Corp.

15051 E. Don Julian Road
Industry, CA 91749

ICI Americas Inc.

New Murphy Rd. & Concord Pike
Wilmington, DE 19897

ICI Australia Operations Pty, Ltd.
ICI House, 1 Nicholson St.
Melbourne 300, Australia

ICI Europe Ltd.
Everslaan 45
B-3078 Kortenberg, Belgium

ICI Ltd./Organics Div., Chemical
Auxiliaries Business Group
Smith's Rd., Bolton
Lancs, BL3 2QJ, UK

**WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS**

- ICI Plant Protection Div.**
Fernhurst, Haslemere
Surrey GU27 3JE, UK
- ICI PLC/Petrochemicals & Plastics Div.,**
England
PO Box 90, Wilton Middlesbrough
Cleveland TS6 8JE, UK
- ICI Specialty Chemicals**
Everslann 45 B-3078
Kortenberg, Belgium
- ICI Japan Ltd.**
Osaka Green Building
1, 3-Chome Kitahama
Higashi-Ku
J-Osaka 541
Japan
- S.C. Johnson & Son, Inc.**
3225 North Verdugo Rd.
Glendale, CA 91208
- Kempen, Elektrochemische Fabrik**
Kempen GmbH
Postfach 100 260
D-4152 Kempen 1, West Germany
- LNP Corp.**
412 King St.
Malvern, PA 19355
- LNP Plastics U.K.**
Unit 25 Monkspath Business Park
Solihull, West Midlands
England
- M.A. Industries Inc., Polymer Div.**
PO Box 2322
Peachtree City, GA 30269
- Millmaster-Onyx International**
PO Box 1045
Fairfield, NJ 07007
- Millmaster-Onyx UK**
Marlborough House, 30-2 Yarm Rd.
Stockton-on-Tees, Cleveland, UK
- Miranol Chemical Co., Inc.**
68 Culver Rd., PO Box 411
Dayton, NJ 08810
- Represented by:*
Alfa Chemicals Ltd.
Broadway House, 7 Shute End
Wokingham Berkshire RG11 1BH, UK
- Mitsubishi International Corp./**
Chemicals Dept.
277 Park Ave.
New York, NY 10017
- Mitsubishi Chemical Industries Ltd.**
6-3, Marunouchi 2-chome, Chiyoda-ku
Tokyo, Japan
- Mobay Chemical Corp./Organic &**
Rubber Chem. Div., Plastics Div.
Penn Lincoln Parkway West
Pittsburgh, PA 15205
- Mobil Oil Corp./Special Products**
Dept.
3225 Gallows Rd.
Fairfax, VA 22037
- Mobil Polymers U.S. Inc.**
591 W. Putnam Ave.
Greenwich, CT 06836
- Monmouth Plastics, Inc.**
814 Asbury Ave.
Asbury Park, NJ 07712
- Monsanto Co.**
800 N. Lindbergh Blvd.
St. Louis, MO 63167
- Monsanto PLC**
Monsanto House
Chineham Court, Chineham
Basingstoke, Hants RG24 0UL, UK
- Monsanto Europe S.A.**
Avenue de Tervuren 270-272
P.O. Box 1
B-1150 Brussels, Belgium

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NL Chemicals, Inc./
Industrial Chemicals Div.
PO Box 700
Hightstown, NJ 08520

NL Treating Chemicals
PO Box 60020
Houston, TX 77205

NL Chem Canada, Inc.
2140 Edifice Sul Life Building
Montreal, Quebec H3B 2X8, Canada

Norchem Inc.—See *Northern Petrochemical*

Northern Petrochemical Co.

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Des Plaines, IL 60018

Norchem Inc.
Two Central Park Plaza
Omaha, NE 68102

Nortech
830 Main St.
Clinton, MA 01510

Occidental Chemical Corp.

360 Rainbow Blvd, S., POB 728
Niagara Falls, NY 14302

Occidental Chemical Corp./
Durez Resins & Molding Materials
Walck Rd., Box 535
North Tonawanda, NY 14120

Olin Chemicals

120 Long Ridge Rd.
Stamford, CT 06904

Olin U.K. Ltd.
Site 7, Kidderminster Road
Cutnall Green
Worcestershire
England WR9 0NS

Olin Japan, Inc.
Shiozaki Building
7-1 Hirakawa-Cho 2-Chome
Chiyoda-ku
Tokyo 102, Japan

Pantasote Inc.

26 Jefferson St.
Passaic, NJ 07055

Perma Flex Mold Co.

1919 East Livingston Ave.
Columbus, OH 43209

Phillips Chemical Co./Subsid. of Phillips Petroleum Co.

14 Phillips Building
Bartlesville, OK 74004

Plastics Engineering Co.

3518 Lakeshore Rd.
Sheboygan, WI 53081

Polymer Applications

3445 River Road
Tonawanda, NY 14150

The Polymer Corp.

2120 Fairmont Ave., PO Box 422
Reading, PA 19603

Polymer Industries

Viaduct Rd.
Stamford, CT 06907

Polymer Research Corp. of America

2186 Mill Ave.
Brooklyn, NY 11234

Polymer Systems Corp.

16 Edgeboro Rd.
E. Brunswick, NJ 08816

Polysar Inc.

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Akron, OH 44313

Polysar Ltd.
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Polysar International S.A.
Route de Beaumont 10
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WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS

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P.O. Box 354
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Belgium
- Polyvinyl Chemical Industries**
730 Main St.
Wilmington, MA 01887
- PPG-Mazer**
3938 Porett Dr.
Gurnee, IL 60031
- Presto Mfg. Co., Inc.**
2 Franklin Ave.
Brooklyn, NY 11211
- Proctor Chemical Co.**
PO Box 399
Salisbury, NC 28144
- Quantum Chemical Corp.**
26250 Euclid Ave.
Euclid, OH 44132
- Quantum Chemical Corp., USI Div.
Lange Bunder 7
4854 MB Bavel, The Netherlands
- Quantum Chemical Ltd.
365 Evans Avenue, Suite 601
Toronto, Ontario M8Z 1K2
- K.J. Quinn & Co., Inc.**
195 Canal St.
Malden, MA 02148
- Reichhold Chemicals Inc.**
RCI Building
White Plains, NY 10602
- Ren Plastics—See Ciba-Geigy Corp.**
- Rexene Products—See El Paso Products Co.**
- The Richardson Co.**
2400 Devon Ave.
Des Plaines, IL 60018
- Rilsan Corp.—See Atochem**
- RITA Corp.**
PO Box 556
Crystal Lake, IL 60014
- Represented by:*
Mapreco
4, Rue des Passe-Loups
7770 Fontaine
Le Port, France
- Rogers Corp.**
One Technology Dr.
Rogers, CT 06263
- Rohm & Haas Co.**
Independence Mall West
Philadelphia, PA 19105
- Rohm & Haas (Australia) Pty. Ltd.
969 Burke Rd., PO Box 115 Camberwell
Victoria 3124 Australia
- Rohm and Haas (UK) Ltd.
Lennig House
2 Mason's Avenue
Croydon CR9-3NB
England
- Rohm & Haas Co. European Operations
Chesterfield House, Bloomsbury Way
London WC1A 2TP, UK
- Rohm and Haas Asia, Ltd.
Kaisei Building
8-10 Azabudai 1-Chome
Minato-ku, Tokyo 106 Japan
- Ruco Polymer Corp.**
New South Rd.
Hicksville, NY 11802
- Sandoz Chemicals Corp.**
4000 Monroe Rd.
Charlotte, NC 28205
- Sandoz Chemicals Corporation
Dorva, Quebec H9R 4P5
Canada
- Sandoz Ltd./Chemicals Div.
Lichtstrasse 35
CH-4002 Basel, Switzerland

TRADENAME PRODUCT MANUFACTURERS

- Sandoz Ltd.
Calverley Lane, Horsforth
Leeds LS18 4RP, UK
- Sartomer Co./Subsid. of The Atlantic Richfield Co.**
PO Box 799
West Chester, PA 19380
- Sartomer International, Inc.
Kingswick House
Sunninghill
Berkshire SL5 7BH, England
- Sartomer International Deutschland GmbH
Konigsallee 60F
4000 Dusseldorf 1
West Germany
- Schenectady Chemicals, Inc.**
PO Box 1046
Schenectady, NY 12301
- Scott Bader Co. Ltd.**
Wollaston, Wellingborough
Northamptonshire NN9 7RL, UK
- Servo Chemische Fabriek B.V.**
PO Box 1, 7490 AA
Delden, Holland
- Shell Chemical Co.**
One Shell Plaza
Houston, TX 77002
- Shell Chemicals UK Ltd.
1 Northumberland Av.
London WC2N 5LA, UK
- Shell Chimie France
27 Rue de Berri
7539, Paris Cedex 08 France
- Shell International Chemical Co., Ltd./
Agrochemicals Div. (CSAA)
Shell Centre
London SE1 7PG, UK
- Shell Nederland Chemie B.V.
PO Box 187, 2501 CD
The Hague, Netherlands
- Shenango Phenolics Corp.**
Clover Lane
New Castle, PA 16105
- Solidur Plastics Co.**
200 Plum Industrial Ct.
Pittsburgh, PA 15239
- Soltex Polymer Corp.—See Solvay & Cie**
- Solvay & Cie**
Rue du Prince Albert 44-
1050 Brussels, Belgium
- Soltex Polymer Corp
3333 Richmond Ave., POB 27328
Houston, TX 77098
- Stauffer Chemical Co.**
Nyala Farm Rd.
Westport, CT 06880
- Stepan Co.**
Edens & Winnetka Roads
Northfield, IL 60093
- Stepan Europe
BP127
38340 Voreppe, France
- Texaco Chemical Co./Div. Texaco Inc.**
PO Box 15730
Austin, TX 78761
- Texaco Canada Inc.
1210 Shepherd Ave. East, Willowdale
Ontario, Canada M2K 2S8
- Texaco, Ltd.
Petrochemical Department
195 Knightsbridge
London SW7 1RU England
- Texaco France S.A.
Division Chimie
Tour Arago
5, rue Bellini
F-92806 Puteaux Cedex, France

**WHAT EVERY CHEMICAL TECHNOLOGIST WANTS TO KNOW
ABOUT...POLYMERS AND PLASTICS**

S.A. Texaco Petroleum N.V.
Ghent Chemical Plant
J.F. Kennedylaan 29
B-9020 Ghent, Belgium

Sanseki-Texaco Chemicals Co. Ltd.
Kasumigaseki Building 23F
No. 2-5, 3-chome
Kasumigaseki Chiyoda-Ku
Tokyo 100, Japan

Texapol Corp.
177 Mikron Rd.
Bethlehem, PA 18017

Thermoset Plastics, Inc.
5101 East 65th St.
Indianapolis, IN 46220

TSE Industries
5260 113 Ave. North, POB 17225
Clearwater, FL 33520-0225

Union Carbide Corp.
39 Old Ridgebury Rd.
Danbury, CT 06817

Union Carbide U.K. Limited
Rickmansworth WD 3 1RB Herts
England

Union Carbide Europe S.A.
15, Chemin Louis-Dunant, 1211 Geneve 20
Geneva, Switzerland

Union Carbide Brazil
Rua Dr. Eduardo De Souza Aranha
153, Sao Paulo 04530
Brazil

Union Carbide Japan KK
Toranomom 45 Mori Bldg.
1-5 Toranomom
5-Chome Minato-Ku
Tokyo 105, Japan

Uniroyal Inc./Chemical Group
World Headquarters
Middlebury, CT 06749

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Brooklands Farm, Cheltenham Road
Evansham, Worcestershire WR11 6LW
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United States Polymers Inc.
19012 Clymer St.
Northridge, CA 91326

R.T. Vanderbilt & Co., Inc.
30 Winfield St.
Norwalk, CT 06855

Vista Chemical Co.
15990 N. Barkers Landing Rd.
PO Box 19029
Houston, TX 77224

Vista Chemical Europe
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Washington Penn Plastic Co., Inc.
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Wellman Inc./Plastics Div.
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Organics Div. & Sonneborn Div.
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