

*UVcuring Paint Coatings Adhesives*



chemical distributor

## *About Kowa India Pvt. Ltd.*

- Chemical Distributor
- Part of Kowa Group (Headquarter in Japan founded in 1894)  
Group employees 3900 worldwide in 55 affiliated companies
- India Headquarter in Mumbai since 2010
- Branch offices in Ahmedabad

## *Performance*

- Representing selected product lines
- Custom sourcing specialist
- Focus on UV application, coating and adhesive industries
- Delivery from Pails up to Iso-Tanks volume
- Link between Europe and Japan
- Long-term partner for long-term development

## *Partners & Suppliers*

- Asahi Kasai Finechem Co. Ltd. (Sulfonates)
- Daicel Chemical Industries Ltd. (Alcohol)
- Japan Finechem Company Inc. (Hydrazides)
- Johoku Chemical Co. Ltd. (Phosphates)
- Meisei Chemical Works Ltd. (Polyethyleneoxide)
- Mitsubishi Rayon Co. Ltd. (Methacrylates)
- MRC Unitec Co. Ltd. (Methacrylamides & Acrylamides)
- New Japan Chemical Co. Ltd. (Anhydrides)
- Nihon Junyaku Co. Ltd. (Water soluble Polyacrylates)
- Nippon Nyukazai Co. Ltd. (Glycol Ethers)
- Osaka Organic Chemical Industry Ltd. (Acrylates)
- SC Organic Chemical Co. Ltd. (Mercaptopropionates)
- Shin Nakamura Chemical Co. Ltd. (Methacrylates & Acrylates)
- Vinicas (Tartaric Acid)

## *Contents*

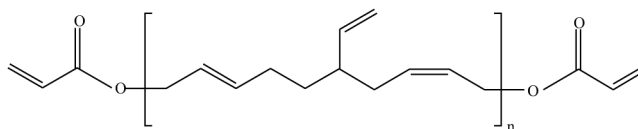
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# Acrylate Monomers

**IBXA (IBOA)** CAS 5888-33-5  
Isobornyl Acrylate EINECS 277-561-6  
Reactive diluent giving high polymer Tg., low P.I.I. and excellent UV sensitivity.  
Mono-Functional Monomer

**2-HEA** CAS 818-61-1  
2-Hydroxyethyl Acrylate EINECS 212-454-9  
Mono-Functional Monomer

**A-DPH (NK-Ester)** CAS 29570-58-9  
Di-pentaerythritol Hexaacrylate EINECS 249-698-0  
High density cross linking agent. Abrasion resistance, rapid cure, chemical resistance and hardness  
Multi-Functional Monomer



**4-HBA** CAS 2478-10-6  
4-Hydroxybutyl Acrylate EINECS 219-606-3  
OH-functional Monomer, low P.I.I. Alternative to 2-HEMA and 2-HEA.  
For UV paints, coatings and various applications.  
Mono-Functional Monomer

**STA** CAS 4813-57-4  
Stearyl Acrylate EINECS 225-383-3  
Mono-Functional Monomer

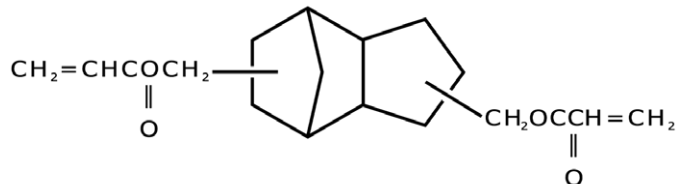
**THFA (Viscoat 150)** CAS 2399-48-6  
Tetrahydrofurfuryl Acrylate EINECS 219-268-7  
Low viscosity, good dilution capability and excellent UV sensitivity  
Mono-Functional Monomer

**BZA (Viscoat 160)** CAS 2495-35-4  
Benzyl Acrylate EINECS 219-673-9  
High refractive index (1.517), for optical Lenses  
Mono-Functional Monomer

**BAC-45 (Development Product)** CAS 95321-56-5  
Polybutadiene Diacrylate  
Specialty monomer that can impart both elastomeric and hydrophobic properties into polymer systems.  
Nonhazardous, odorless, TSCA listed

**A-DOD (NK-Ester)** CAS 13048-34-5  
1,10-Decanediol Diacrylate EINECS 235-922-4  
Di-Functional Monomer

**A-DCP (NK-Ester)** CAS 42594-17-2  
 Tricyclodecane Dimethanol Diacrylate EINECS 255-901-3  
 High Tg Di-Functional Monomer for hard crosslinked films: advantages include low shrinkage, fast reactivity, good UV light transmission and excellent adhesion to plastic substrates.  
 Di-Functional Monomer



**Viscoat 195** CAS 1070-70-8  
 1,4-Butanediol Diacrylate EINECS 213-979-6  
 Di-Functional Monomer

**Viscoat 230** CAS 13048-33-4  
 1,6-Hexanediol Diacrylate EINECS 235-921-9  
 Di-Functional Monomer

**Viscoat 190** CAS 7328-17-8  
 2-Ethoxyethyl Acrylate EINECS 230-811-7  
 Mono-Functional Monomer

**Viscoat 4F** CAS 7383-71-3  
 2,2,3,3-Tetrafluoropropyl Acrylate EINECS 230-957-1  
 Monomer

**Viscoat 335HP** CAS 17831-71-9  
 Tetraethyleneglycol Diacrylate EINECS 241-789-3  
 Monomer

**702A** CAS 16969-10-1  
 2-Hydroxy-3-phenoxypropyl Acrylate EINECS 241-045-8  
 Mono-Functional Monomer

**HPA** CAS 999-61-1  
 2-Hydroxypropyl Acrylate EINECS 247-118-0  
 Mono-Functional Monomer

**2-MTA** CAS 3121-61-7  
 2-Methoxyethyl Acrylate EINECS 221-499-3  
 Mono-Functional Monomer

**Viscoat 192** CAS 48145-04-6  
 2-Phenoxyethyl Acrylate EINECS 256-360-6  
 Mono-Functional Monomer

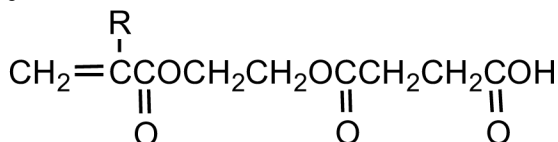
**AA** CAS 999-55-3  
 Allyl Acrylates EINECS 213-662-2  
 Mono-Functional Monomer

**A-BH** CAS 18299-85-9  
 Behenyl Acrylate EINECS 242-182-6  
 Mono-Functional Monomer

**β-Carboxyethyl Acrylate** CAS 24615-84-7  
 β-Carboxyethyl Acrylate EINECS 246-359-9  
 Mono-Functional Monomer

**Viscoat 155** CAS 3066-71-5  
 Cyclohexyl Acrylate EINECS 221-319-3  
 Mono-Functional Monomer

**A-SA (NK-Ester)** CAS 50942-49-3  
 β-Acryloyl Oxyethyl Hydrogen Succinate



**APG-100** CAS 57472-68-1  
 Dipropylene Glycol Diacrylate EINECS 260-754-3  
 Di-Functional Monomer

**AD-TMP** CAS 94108-97-1  
 Ditrimehtylol Propane Tetraacrylate EINECS 302-434-9  
 Multi-Functional Monomer

**ATM-35E** CAS 51728-26-8  
 Ethoxylated Pentaerythritol Tetraacrylate (PO354mol) EINECS NLP 500-111-9  
 Multi-Functional Monomer

**Viscoat 360** CAS 28961-43-5  
 Ethoxylated Trimethylolpropane Triacrylate EINECS NLP 500-066-5  
 Multi-Functional Monomer

**AIB** CAS 106-63-8  
 Iso-Butyl Acrylate EINECS 203-417-8  
 Mono-Functional Monomer

**IOAA** CAS 29590-42-9  
 Iso-Octyl Acrylate EINECS 249-707-8  
 Mono-Functional Monomer

**S-1800A ISA** CAS 93841-48-6  
 Iso-Stearyl Acrylate EINECS 299-018-1  
 Mono-Functional Monomer

**LA** CAS 2156-97-0  
 Lauryl Acrylate EINECS 218-463-4  
 Mono-Functional Monomer

**Viscoat MTG** CAS 48067-72-7  
 Methoxytriethyleneglycol Acrylate EINECS 256-348-0  
 Mono-Functional Monomer

**A-NPG** CAS 2223-82-7  
 Neopentyl Glycol Diacrylate EINECS 218-741-5  
 Di-Functional Monomer

**A-LEN-10**

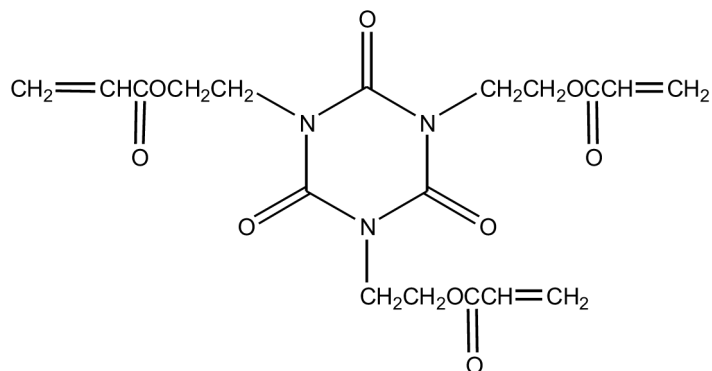
Polyethyleneglycol o-phenyl phenyl ether acrylate  
Mono-Functional Monomer

CAS 72009-86-0  
EINECS NLP 500-247-9

**A-9300S (NK-Ester)**

Ethoxylated isocyanuric acid triacrylate  
Excellent high density crosslinking monomer for high temperature resistance and high stress applications  
Multi-Functional Monomer

CAS 40220-08-4  
EINECS 254-843-6

**Viscoat 3F**

Trifluoroethyl Acrylate  
Fluorine-Contained Monomer

CAS 407-47-6  
EINECS 206-987-6

**A-TMPT**

Trimethylol Propane Triacrylate  
Multi-Functional Monomer

CAS 15625-89-5  
EINECS 239-701-3

**APG-200**

Tripropylene Glycol Diacrylate  
Di-Functional Monomer

CAS 42978-66-5  
EINECS 256-032-2

**Viscoat 8F**

Octafluoropentyl Acrylate  
Fluorine-Contained Monomer

CAS 376-84-1  
EINECS 206-816-5

**Viscoat 400 X**

Pentaerythritol Tetraacrylate  
Multi-Functional Monomer

CAS 4986-89-4  
EINECS 225-644-1

**Viscoat 300**

Pentaerythritol Triacrylate  
Multi-Functional Monomer

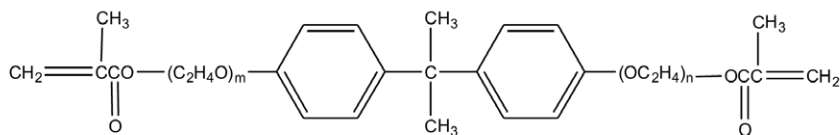
CAS 3524-68-3  
EINECS 222-540-8

## *Methacrylate Monomers*

<b>DOD-N</b> 1,10-Dodecanediol Dimethacrylate Di-Functional Monomer	CAS 6701-13-9 EINECS 229-745-1
<b>SA</b> $\beta$ -Methacryloyl Oxyethyl Hydrogen Succinate Monomer	CAS 20882-04-6 EINECS 244-096-4
<b>BD</b> 1,4-Butane Diol Dimethacrylate Di-Functional Monomer	CAS 2082-81-7 EINECS 218-218-1
<b>BDMA</b> 1,3-Butyleneglycol Dimethacrylate Di-Functional Monomer	CAS 1189-08-8 EINECS 214-711-0
<b>HXMA</b> 1,6-Hexanediol Dimethacrylate Di-Functional Monomer	CAS 6606-59-3 EINECS 229-551-7
<b>3FEMA</b> 2,2,2-Trifluoroethyl Methacrylate Fluorine-Contained Monomer	CAS 352-87-4 EINECS 206-525-3
<b>(A-)CHD-4E (NK-Ester)</b> Ethoxylated Cyclohexane Dimethanol Di(Meth)Acrylate Aliphatic di-functional monomer with excellent adhesion characteristics, rapid cure, good UV light transmission	
$M+n=4 \quad R = -H, -CH_3$ $CH_2=C(R)-C(=O)-\left(O-CH_2-CH_2\right)_m-O-CH_2-\text{Cyclohexane}-CH_2-O-\left(CH_2-CH_2-O\right)_n-C(=O)-C(R)=CH_2$	
<b>A-DOG</b> 2 ( 1,1-dimethyl-2- ( 1-oxoallyl)oxy ) ethyl-5-ethyl-1,3-dioxan ) -5-yl ) methyl methacrylate Mono-Functional Monomer	CAS 87320-05-6 EINECS 289-312-8
<b>ETMA</b> 2-Ethoxyethyl Methacrylate Mono-Functional Monomer	CAS 2370-63-0 EINECS 219-135-3
<b>EHMA</b> 2-Ethylhexyl Methacrylate Mono-Functional Monomer	CAS 688-84-6 EINECS 211-708-6
<b>701</b> 2-Hydroxy 1-3-dimethacryloxy Propane Di-Functional Monomer	CAS 1830-78-0 EINECS 217-388-4



<b>HEMA</b> 2-Hydroxyethyl Methacrylate Mono-Functional Monomer	CAS 868-77-9 EINECS 212-782-2
<b>HPMA</b> 2-Hydroxypropyl Methacrylate Mono-Functional Monomer	CAS 27813-02-1 EINECS 248-666-3
<b>MTMA</b> 2-Methoxyethyl Methacrylate Mono-Functional Monomer	CAS 6976-93-8 EINECS 230-241-9
<b>Topolene M</b> 3-Chloro-2-Hydroxy-propyl Methacrylate Mono-Functional Monomer	CAS 13159-52-9 EINECS 236-097-3
<b>TBCHMA</b> 4-tert-Butyl Cyclohexyl Methacrylate Mono-Functional Monomer	CAS 46729-07-4 EINECS 256-277-5
<b>AMA</b> Allyl Methacrylate Mono-Functional Monomer	CAS 96-05-9 EINECS 202-473-0
<b>BPE (NK-Ester)</b> Ethoxylated Bisphenol A Di(Meth)Acrylate Level of ethoxylation from 2 to 30, epoxy oligomers with narrow MW range and exceptional purity	CAS 4167-38-1



<b>BZMA</b> Benzyl Methacrylate Mono-Functional Monomer	CAS 2495-37-6 EINECS 219-674-4
<b>CHMA</b> Cyclohexyl Methacrylate Mono-Functional Monomer	CAS 101-43-9 EINECS 202-943-5
<b>DEMA</b> Diethylaminoethyl Methacrylate Mono-Functional Monomer	CAS 105-16-8 EINECS 203-275-7
<b>2G</b> Diethylene Glycol Dimethacrylate Di-Functional Monomer	CAS 2358-84-1 EINECS 219-099-9
<b>DMMA</b> Dimethylaminoethyl Methacrylate Mono-Functional Monomer	CAS 2867-47-2 EINECS 220-688-8

<b>DMCMA</b> Dimethylaminoethyl Methacrylate Methylchloride Salt Mono-Functional Monomer	CAS 5039-78-1 EINECS 225-733-5
<b>DML60</b> Dimethylaminoethyl Methacrylate Benzylchloride Salt Mono-Functional Monomer	CAS 46917-07-1 EINECS 256-288-5
<b>EDMA</b> Ethyleneglycol Dimethacrylate Di-Functional Monomer	CAS 97-90-5 EINECS 202-617-2
<b>EMA</b> Ethyl Methacrylate Mono-Functional Monomer	CAS 97-63-2 EINECS 202-597-5
<b>GMA</b> Glycidyl Methacrylate Mono-Functional Monomer	CAS 106-91-2 EINECS 203-441-9
<b>17FEMA</b> Heptadecafluorodecyl Methacrylate Fluorine-Contained Monomer	CAS 1996-88-9 EINECS 217-877-2
<b>IBXMA</b> Isobornyl Methacrylate Mono-Functional Monomer	CAS 7534-94-3 EINECS 231-403-1
<b>IBMA</b> iso-Butyl Methacrylate Mono-Functional Monomer	CAS 97-86-9 EINECS 202-613-0
<b>LMA</b> Lauryl Methacrylate Mono-Functional Monomer	CAS 142-90-5 205-570-6
<b>MAA</b> Methacrylic Acid Mono-Functional Monomer	CAS 79-41-4 EINECS 201-204-4
<b>M-20G</b> Methoxy Diethylene Glycol Methacrylate (EO 2mol) Mono-Functional Monomer	CAS 45103-58-0 EINECS 256-190-2
<b>MMA</b> Methyl Methacrylate Mono-Functional Monomer	CAS 80-62-6 EINECS 201-297-1
<b>n-BMA</b> n-Butyl Methacrylate Mono-Functional Monomer	CAS 97-88-1 EINECS 202-615-1
<b>NPG</b> Neopentyl Glycol Dimethacrylate Di-Functional Monomer	CAS 1985-51-9 EINECS 217-856-8

<b>Viscoat 8FM</b> Octafluoropentyl Methacrylate Fluorine-containing Monomer	CAS 355-93-1 EINECS 206-596-0
<b>PHE-1G</b> Phenoxy Ethyl Methacrylate (EO 1mol) Mono-Functional Monomer	CAS 10595-06-9 EINECS 234-201-1
<b>PHMA</b> Phenyl Methacrylate Mono-Functional Monomer	CAS 2177-70-0 EINECS 218-542-3
<b>SMA</b> Stearyl Methacrylate Mono-Functional Monomer	CAS 32360-05-7 EINECS 251-013-5
<b>TBMA</b> Tert-Butyl Methacrylate Mono-Functional Monomer	CAS 585-07-9 EINECS 209-548-7
<b>THFMA</b> Tetrahydrofurfuryl Methacrylate Fluorine-containing Monomer	CAS 2455-24-5 EINECS 219-529-5
<b>DCP</b> Tricyclodecane Dimethanol Dimethacrylate Di-Functional Monomer	CAS 43048-08-4 EINECS 256-062-6
<b>TDMA</b> Tridecyl Methacrylate Mono-Functional Monomer	CAS 2495-25-2 EINECS 219-671-8
<b>3EDMA</b> Triethyleneglycol Dimethacrylate Di-Functional Monomer	CAS 109-16-0 EINECS 203-652-6
<b>TMPMA</b> Trimethylolpropane Trimethacrylate Multi-Functional Monomer	CAS 3290-92-4 EINECS 221-950-4

## *Castor Oil & Derivatives*

<b>Castor Oil</b> Castor Oil	CAS 8001-79-4 EINECS 232-293-8
<b>HCO</b> Hydrogenated Castor Oil	CAS 8001-78-3 EINECS 232-292-2
<b>12-HSA</b> Hydroxystearic Acid	CAS 36377-33-0 EINECS 253-004-1
<b>RA</b> Ricinoleic Acid	CAS 141-22-0 EINECS 205-470-2

## *Thiocarboxylic Acids*

<b>DPMP</b> [Dipentaerythritol-hexakis-(3-mercaptopropionate)] Monomer	CAS 25359-71-1 EINECS 246-893-2
<b>TMMP</b> [Trimethylolpropane-tris-(3-mercaptopropionate)] Monomer	CAS 33007-83-9 EINECS 251-336-1
<b>EHMP</b> 2-Ethylhexyl-3-Mercaptopropionate Monomer	CAS 50448-95-8 EINECS 256-589-1
<b>TDPA</b> 3,3'-Thiodipropionic Acid Monomer	CAS 111-17-1 EINECS 203-841-3
<b>TDM</b> Dimethyl-3,3'-thiodipropionate Monomer	CAS 4131-74-2 EINECS 223-948-9
<b>DTDPA</b> Dithiodipropionic Acid Monomer	CAS 1119-62-6 EINECS 214-284-0
<b>MPM</b> Methyl-3-mercaptopropionate Monomer	CAS 2935-90-2 EINECS 220-912-4
<b>M3MP</b> Methyl-3-methoxypropionate Monomer	CAS 3852-09-3 EINECS 223-358-1
<b>NONP</b> n-Octyl 3-mercaptopropionate Monomer	CAS 71849-93-9 EINECS 276-078-7
<b>PEMP</b> Pentaerythritol Tetrakis(3-mercaptopropionate) Monomer	CAS 7575-23-7 EINECS 231-472-8
<b>STMP</b> Stearyl-3-mercaptopropionate Monomer	CAS 31778-15-1 EINECS 250-801-6
<b>TEMPIC</b> Tris[2-(3-mercaptopropionyloxy)ethyl] Isocyanurate Monomer	CAS 36196-44-8 EINECS 252-907-8
<b>BMPA</b> $\beta$ -mercaptopropionic Acid Monomer	CAS 107-96-0 EINECS 203-537-0

## *Carboxylic Acids*

TH-W  
Tetrahydrophthalic Acid  
Functional Monomer  
CAS 88-98-2  
EINECS 201-872-7

## *Hydrazides*

UDMH  
1,1-Dimethylhydrazine  
Monomer  
CAS 57-14-7  
EINECS 200-316-0

50% Hydrazine monohydrobromide aqueous solution  
Monomer  
CAS 13775-80-9  
EINECS 237-412-7

ADH  
Adipic Dihydrazide  
Monomer  
CAS 1071-93-8  
EINECS 213-999-5

CDH  
Carbodihydrazide  
Monomer  
CAS 497-18-7  
EINECS 207-837-2

diHS  
Dihydrazine Sulfate  
Monomer  
CAS 13464-80-7  
EINECS 236-688-6

Hydrazine dihydrochloride  
Monomer  
CAS 5341-61-7  
EINECS 226-283-2

Hydrazine monohydrochloride  
Monomer  
CAS 2644-70-4  
EINECS 220-154-4

HS  
Hydrazine Sulfate  
Monomer  
CAS 10034-93-2  
EINECS 233-110-4

IDH  
Isophthalic Dihydrazide  
Monomer  
CAS 2760-98-7  
EINECS 220-425-7

MMH  
Monomethylhydrazine  
Monomer  
CAS 60-34-4  
EINECS 200-471-4

SDH  
Sebacic Dihydrazide  
Monomer  
CAS 925-83-7  
EINECS 213-126-8

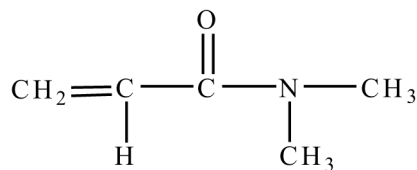
TBZ HCL  
tert-Butylhydrazine Hydrochloride  
Monomer  
CAS 7400-27-3  
EINECS 231-001-6

## *Acid Anhydrides*

<b>DDSA</b> Dodecyl Succinic Anhydride Monomer	CAS 26544-38-7 EINECS 247-781-6
<b>HPHA</b> Hexa Hydro Phthalic Anhydride Monomer	CAS 85-42-7 EINECS 201-604-9
<b>MHHPA</b> Methyl Hexa Hydro Phthalic Anhydride Monomer	CAS 19438-60-9 EINECS 243-072-0
<b>MTHPA</b> Methyl Tetra Hydro Phthalic Anhydride Monomer	CAS 11070-44-3 EINECS 234-290-7
<b>SAH</b> Succinic Anhydride Functional Monomer	CAS 108-30-5 EINECS 203-570-0
<b>THPA</b> Tetra Hydro Phthalic Anhydride Monomer	CAS 85-43-8 EINECS 201-605-4

## *(Meth)Acrylamide Derivates*

<b>MBAA</b> N,N'-Methylene bis Acrylamide Monomer	CAS 110-26-9 EINECS 203-750-9
<b>DMAA</b> N,N-Dimethyl Acrylamide Monomer	CAS 2680-03-7 EINECS 220-237-5



<b>NEMA</b> N-Ethoxymethyl Acrylamide Monomer	CAS 13036-41-4 EINECS 235-902-5
<b>IBMA</b> N-Iso-Butoxymethyl Acrylamide Monomer	CAS 16669-59-3 EINECS 240-715-7
<b>NMMA</b> N-Methoxymethyl Acrylamide Monomer	CAS 3644-11-9 EINECS 222-871-8

<b>NMAA</b> N-Methylol Acrylamide Monomer	CAS 924-42-5 EINECS 213-103-2
<b>NBMA</b> N-n-Butoxymethyl Acrylamide Monomer	CAS 1852-16-0 EINECS 217-442-7
<b>TBAA</b> tert-Butyl Acrylamide Monomer	CAS 107-58-4 EINECS 203-505-6
<b>TBAS</b> tert-Butyl Acrylamide Sulfonic Acid Monomer	CAS 15214-89-8 EINECS 239-268-0
<b>DMAPMA</b> Dimethyl Amino Propyl Methacrylamide Monomer	CAS 5205-93-6 EINECS 226-002-3
<b>NBMM</b> N-Butoxymethyl Methacrylamide Monomer	CAS 5153-77-5 EINECS 225-929-0
<b>IBMM</b> N-Iso-Butoxymethyl Methacrylamide Monomer	CAS 4548-27-0 EINECS 224-907-8
<b>NMMM</b> N-Methoxymethyl Methacrylamide Monomer	CAS 3644-12-0 EINECS 222-872-3

## *Amines*

<b>Diethyl Amine</b> Monomer	CAS 109-89-7 EINECS 203-716-3
<b>DEHA</b> Diethyl Hydroxylamine 85% Monomer	CAS 3710-84-7 EINECS 223-055-4
<b>OH-PIZ</b> Hydroxyethyl Piperazine Monomer	CAS 103-76-4 EINECS 203-142-3
<b>Pyridine</b> Monomer	CAS 110-86-1 EINECS 203-809-9

## *Water soluble Polyacrylates*

### **Jurymer AC**

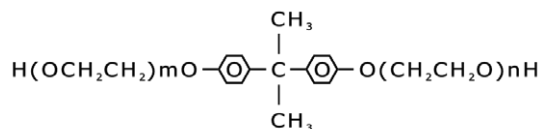
Series of water soluble polymers made of polyacrylates. Thickener for paints and pigment dispersing agents

## *Ethoxylated & Propoxylated Bisphenol-A*

BA-2

Ethoxylated Bisphenol A  
Monomer

CAS 901-44-0  
EINECS 212-985-6



HBPA

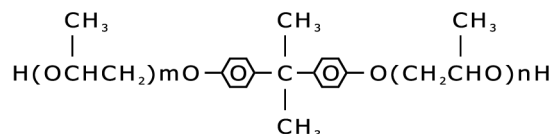
Hydrogenated Bisphenol A  
Monomer

CAS 80-04-6  
EINECS 201-244-2

BA-P2

Propoxylated Bisphenol A  
Monomer

CAS 37353-75-6  
EINECS NLP 500-097-4



## *Glycol Ethers*

EHG

2-Ethyl Hexyl Glycol  
Monomer

CAS 1559-35-9  
EINECS 216-323-7

AGE

Allyl Glycidyl Ether  
Monomer

CAS 106-92-3  
EINECS 203-442-4

AG

Allyl Glycol  
Monomer

CAS 111-45-5  
EINECS 203-871-7

BzG

Benzyl Glycol  
Monomer

CAS 622-08-2  
EINECS 210-719-3

HeG

Hexyl Glycol  
Monomer

CAS 112-25-4  
EINECS 203-951-1

MFTG

Methyl Propylene Tri Glycol  
Monomer

CAS 20324-33-8  
EINECS 243-734-9

PhFG

Phenyl Propylene Glycol  
Monomer

CAS 770-35-4  
EINECS 212-222-7



## *Polyethylene Oxide*

### ALKOX-Series

High molecular weight (100,000 - 8,000,000) Polyethylene Glycol  
Viscosity thickener for paints and pigment dispersing agents for coatings and fluorescent lamps

## *Sulfonate Monomers*

### SAS

Sodium Allyl Sulfonate  
Reactive Co-Monomer for acrylic fibers, reforming monomer for various polymers

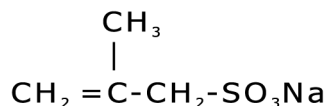
CAS 2495-39-8  
EINECS 219-676-5



### SMAS

Sodium Methallyl Sulfonate  
Reactive Co-Monomer for acrylic fibers, reforming monomer for various polymers

CAS 1561-92-8  
EINECS 216-341-5



### N-SVS-25C

Sodium Vinyl Sulfonate (aqueous solution)  
Reactive Co-Monomer for acrylic fibers, reforming monomer for various polymers and sulfoethylation agents

CAS 3039-83-6  
EINECS 221-242-5



## *Tartaric Acid*

### Natural L-(+)-Tartaric Acid

Set-retardant and antisolifidifying agent for plaster and cement, anticaking agent in gypsum processing

CAS 87-69-4  
EINECS 201-766-0

## *Resins*

### HBE-100

Hydrogenated Bisphenol A with Epichlorohydrin  
Epoxy resins

CAS 30583-72-3  
EINECS 500-070-7

## *Alcohol*

### 1,3BG

1,3-Butylene Glycol

CAS 107-88-0  
EINECS 203-529-7

### Allyl Alcohol

CAS 107-18-6  
EINECS 203-470-7

## *Acrylic Resin Powder* for PVC- & Phthalate-free Plastisol-Inks

### DIANAL® LP-Series

The DIANAL® LP-series is an acrylic resin powder for plastisols, newly developed to offer an environmentally favorable material for the manufacturers of plastisols.

DIANAL® LP-series do not contain halogen atoms, and no dehydrohalogenation occurs during baking or incineration.

Acrylic plastisols can be produced by the same production line as PVC plastisols.

Acrylic plastisols and its products can be disposed by incineration without pre-dehalogenation process, making it possible to cut down the costs for recycling and disposal of products and waste.

#### ■ Advantages of Acrylic Plastisols

Requires less heat than PVC plastisols for gelling. (Lower temperature or shorter time.)

Thermally stable. (No thermal decomposition at high temperatures.)

UV and weather resistant. (No stabilizer has to be added to the paste.)

Lower density than PVC. (Lightweight material)

#### ■ Applications of Acrylic Plastisols

DIANAL® LP-series can offer non-PVC plastisols for screen printing ink systems.

Non-phthalate plasticizer are available for acrylic plastisols as well as phthalate plasticizers.

#### ■ Features of DIANAL LP

DIANAL® LP is a powdery resin of alkyl methacrylate copolymer.

	Dianal LP
appearance	white powder
water content	1.2 wt%
bulk density	0.3 0.4g/cc
particle size	60µm (secondary particle)
(V <sub>50</sub> value)	0.6 1.0µm (primary particle)
composition	alkyl methacrylate copolymer (>95%)

## *Azo Compounds*

### ABN-V

2,2'-Azobis(2,4-dimethylvaleronitrile)  
Monomer

CAS 4419-11-8  
EINECS 224-583-8

### ABN-E

2,2'-Azobis(2-methylbutyronitrile)  
Monomer

CAS 13472-08-7  
EINECS 236-740-8

### ABN-R

2,2'-Azobisisobutyronitrile  
Monomer

CAS 78-67-1  
EINECS 201-132-3

## *Isocyanate*

### Krarenz MOI

2-Methacryloyloxyethyl Isocyanate  
Monomer

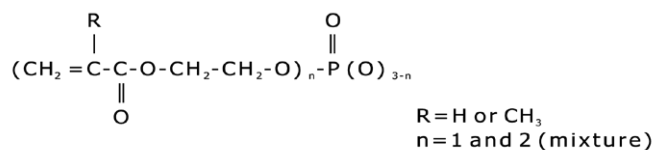
CAS 30674-80-7  
EINECS 250-284-7

## *Cationic Monomers*

<b>MAPTAC</b> Methacryloyl Aminopropyl Trimethyl Ammonium Chloride Monomer	CAS 51410-72-1 EINECS 257-182-1
<b>MAPTAS</b> Methacryloyl Aminopropyl Trimethyl Ammonium Methylsulfate Monomer	CAS 51441-65-7 EINECS 257-207-6
<b>MOEBAC</b> Methacryloyl Oxyethyl Dimethyl Benzyl Ammonium Chloride Monomer	CAS 46917-07-1 EINECS 256-288-5
<b>MOEDS</b> Methacryloyl Oxyethyl Dimethyl Ethyl Ammonium Ethylsulfate Monomer	CAS 13223-03-5 EINECS 236-195-6
<b>MOETAP</b> Methacryloyl Oxyethyl Trimethyl Ammonium p-Toluenesulfonate Monomer	CAS 40820-77-7 EINECS 255-094-8
<b>QDM</b> Methacryloyl Oxyethyl Trimethyl Ammonium Chlorid Monomer	CAS 5039-78-1 EINECS 225-733-5
<b>MOETAS</b> Methacryloyl Oxyethyl Trimethyl Ammonium Methylsulfate Monomer	CAS 6891-44-7 EINECS 229-995-1

## *Phosphates*

<b>JP-502</b> Ethyl Acid Phosphate Monomer	CAS 598-02-7 EINECS 209-912-5
<b>Phoslex A-4</b> Butyl Acid Phosphate Monomer	CAS 107-66-4 / 1623-15-0 EINECS 203-509-8 / 216-604-4
<b>JPA-514 (&amp; JPA-514M)</b> 2-Hydroxyethylmethacrylate Acid Phosphate Adhesion promoting monomers for adhesives, coatings and electronic applications. Monomer	CAS 52628-03-2 EINECS 258-053-2



<b>Viscoat 3PA</b> Tris-Acryloyloxyethyl Phosphate Monomer	CAS 35057-49-9 EINECS 252-340-6
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## *Vinyl Ethers*

<b>BDVE</b> 1,4-Butanediol Divinylether Monomer	CAS 3891-33-6 EINECS 223-437-0
<b>EHVE</b> 2-Ethylhexyl Vinylether Monomer	CAS 103-44-6 EINECS 203-111-4
<b>CHVE</b> Cyclohexyl Vinylether Monomer	CAS 2182-55-0 EINECS 218-561-7
<b>HBVE</b> Hydroxybutyl Vinylether Monomer	CAS 17832-28-9 EINECS 241-793-5
<b>HEVE</b> Hydroxyethyl Vinylether Monomer	CAS 764-48-7 EINECS 212-124-4
<b>IBVE</b> Isobutyl Vinylether Monomer	CAS 109-53-5 EINECS 203-678-8
<b>NBVE</b> n-Butyl Vinylether Monomer	CAS 111-34-2 EINECS 203-860-7
<b>NPVE</b> n-Propyl Vinylether Monomer	CAS 764-47-6 EINECS 212-123-9
<b>ODVE</b> Octadecyl Vinylether Monomer	CAS 930-02-9 EINECS 213-208-3

## *Urethane Acrylates*

<b>UA-100H</b> Urethane Acrylates Monomer	CAS 77001-81-1 EINECS 278-590-6
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## *Urethane Methacrylates*

<b>U-4H</b> Urethane Methacrylates Monomer	CAS 80937-22-0 EINECS 279-630-5
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## *Others*

<b>DMPO</b> 1,3-Dimethyl-5-pyrazolone	CAS 2749-59-9 EINECS 220-389-2
<b>MDMH</b> 1-Methylol-5,5-Dimethylhydantoin	CAS 116-25-6 EINECS 204-132-1
<b>DMH</b> 5,5-Dimethylhydantoin	CAS 77-71-4 EINECS 201-051-3
<b>ATS</b> Acetonethiosemicarbazone	CAS 1752-30-3 EINECS 217-137-9
<b>ASU</b> Amidinothiourea	CAS 2114-02-5 EINECS 218-308-0
<b>BPH</b> Benzophenone hydrazone	CAS 5350-57-2 EINECS 226-321-8
<b>CAT-U</b> Catantito-U	CAS 21835-55-2 EINECS 244-608-6
<b>CB-1 (NK-Ester)</b> 2-Methacryloxyxyethyl Phthalic Acid Monomer	CAS 27697-00-3 EINECS 248-616-0
<b>Choline Hydroxide</b> Choline Hydroxide	CAS 123-41-1 EINECS 204-625-1
<b>DHC</b> Dimethylamine Hydrochloride	CAS 506-59-2 EINECS 208-046-5
<b>Ethylene Carbonate</b> Ethylene Carbonate	CAS 96-49-1 EINECS 202-510-0
<b>MCAC</b> Monochloro Acetylchloride	CAS 79-04-9 EINECS 201-171-6
<b>MMP</b> Monomethylamine Hydrochloride	CAS 593-51-1 EINECS 209-795-0
<b>DM-3031</b> N,N'-(methylenedi-p-phenylene)bis[hexahydro-2-oxo-1H-azepine-1-carboxamide]	CAS 54112-23-1 EINECS 258-981-8
<b>PCBTF</b> p-Chlorobenzotrifluoride Monomer	CAS 98-56-6 EINECS 202-681-1
<b>Precipitated Calcium Carbonate</b>	CAS 471-34-1 EINECS 207-439-9
<b>PTSIP</b> p-Toluenesulfonic Acid Isopropyl Ester	CAS 2307-69-9 EINECS 218-989-4

<b>PTSE</b> p-Toluenesulfonic Acid Ethyl Ester	CAS 80-40-0 EINECS 201-276-7
<b>PTSM</b> p-Toluenesulfonic Acid Methyl Ester	CAS 80-48-8 EINECS 201-283-5
<b>PTSB</b> p-Toluenesulfonic Acid n-Butyl Ester	CAS 778-28-9 EINECS 212-295-5
<b>PTSP</b> p-Toluenesulfonic Acid n-Propyl Ester	CAS 599-91-7 EINECS 209-978-5
<b>Semicarbazide HCl</b> Semicarbazide Hydrochloride	CAS 563-41-7 EINECS 209-247-0
<b>Thiosemicarbazide</b>	CAS 79-19-6 EINECS 201-184-7
<b>TMP</b> Trimethylamine Hydrochloride	CAS 593-81-7 EINECS 209-810-0
<b>Zinc Oxide</b>	CAS 1314-13-2 EINECS 215-222-5

17	1,3B	21	CB-1	13	IDH	15	Pyridine
9	2G	13	CDH	6	IOAA	19	QDM
4	2-HEA	9	CHMA	19	JP-502	11	RA
5	2-MTA	21	Choline	19	JPA-514	6	S-1800A ISA
11	3EDMA		Hydroxide	19	JPA-514M	8	SA
8	3FEMA	20	CHVE	15	Jurymer AC	14	SAH
4	4-HBA	11	DCP	18	Krarenz MOI	17	SAS
11	12-HSA	14	DDSA	6	LA	13	SDH
10	17FEMA	15	DEHA	10	LMA	22	Semicarbazide
13	50% Hydrazine	9	DEMA	12	M3MP		HCl
	monohydro-	21	DHC	10	M-20G	11	SMA
	bromide aqueous	18	DIANAL®	10	MAA	17	SMAS
	solution		LP-Series	19	MAPTAC	4	STA
8	701	15	Diethyl Amine	19	MAPTAS	12	STMP
5	702A	13	diHS	14	MBAA	15	TBAA
7	A-9300S	21	DM-3031	21	MCAC	15	TBAS
5	AA	14	DMAA	21	MDMH	9	TBCHMA
5	A-BH	15	DMAPMA	16	MFTG	11	TBMA
18	ABN-E	10	DMCMA	14	MHHPA	13	TBZ HCL
18	ABN-R	21	DMH	10	MMA	11	TDMA
18	ABN-V	10	DML60	13	MMH	12	TDM
8	(A-)CHD-4E	21	DMPO	21	MMP	12	TDPA
5	A-DCP	8	DOD-N	19	MOEBAC	12	TEMPIC
13	ADH	12	DPMP	19	MOEDES	4	THFA
4	A-DOD	12	DTDPA	19	MOETAP	11	THFMA
8	A-DOG	10	EDMA	19	MOETAS	22	Thiosemi-
4	A-DPH	16	EHG	12	MPM		carbazide
6	AD-TMP	8	EHMA	14	MTHPA	14	THPA
16	AG	12	EHMP	9	MTMA	13	TH-W
16	AGE	20	EHVE	17	Tartaric Acid	12	TMMP
6	AIB	10	EMA	10	n-BMA	22	TMP
7	A-LEN-10	21	Ethylene	15	NBMA	11	TMPMA
17	ALKOX-Series		Carbonate	15	NBMM	9	Topolene M
17	Allyl Alcohol	8	ETMA	20	NBVE	20	U-4H
9	AMA	10	GMA	14	NEMA	20	UA-100H
6	A-NPG	17	HBE-100	15	NMAA	13	UDMH
6	APG-100	16	HBPA	14	NMMA	7	Viscoat 3F
7	APG-200	20	HBVE	15	NMMM	19	Viscoat 3PA
6	A-SA	11	HCO	12	NONP	5	Viscoat 4F
21	ASU	16	HeG	10	NPG	7	Viscoat 8F
6	ATM-35E	9	HEMA	20	NPVE	11	Viscoat 8FM
7	A-TMPT	20	HEVE	17	N-SVS-25C	4	Viscoat 150
21	ATS	14	HHPA	20	ODVE	6	Viscoat 155
16	BA-2	5	HPA	15	OH-PIZ	4	Viscoat 160
4	BAC-45	9	HPMA	21	PCBTF	5	Viscoat 190
16	BA-P2	13	HS	12	PEMP	5	Viscoat 192
8	BD	8	HXMA	11	PHE-1G	5	Viscoat 195
8	BDMA	13	Hydrazine	16	PhFG	5	Viscoat 230
20	BDVE		dihydrochloride	11	PHMA	7	Viscoat 300
12	BMPA	13	Hydrazine mono-	19	Phoslex A-4	5	Viscoat 335HP
9	BPE		hydrochloride	21	Precipitated	6	Viscoat 360
21	BPH	10	IBMA		Calcium Carbonate	7	Viscoat 400 X
4	BZA	14	IBMA	22	PTSB	6	Viscoat MTG
16	BzG	15	IBMM	22	PTSE	22	Zinc Oxide
9	BZMA	20	IBVE	21	PTSIP	6	β-Carboxyethyl
11	Castor Oil	4	IBXA (IBOA)	22	PTSM		Acrylate
21	CAT-U	10	IBXMA	22	PTSP		



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