

# **Resoures.** Value Adding. Logistic.

INDIVIDUAL SOLUTIONS FOR THE CHEMICAL INDUSTRY

Jobachem GmbH is a family business for chemical trading and services established in 1992. As an extended workbench for the chemical industry we offer the full spectrum of product sourcing, import, customs clearing, distribution, logistic solutions, storage, packaging and formulation of chemical raw materials.

With our headquarters in middle Germany – in the heart of Europe – and branches in the USA, Hong Kong and China mainland we supply for highly demanding markets and support numerous renowned companies in the chemical industry.

Chemical raw materials and intermediates are often classified as hazardous substances with a demand for skillful and knowledgeable handling services. They therefore pose a technical and logistical challenge. We eagerly take on this challenge and through competent and intelligent services we can guarantee a safe and reliable premium-quality distribution of chemical substances.

#### LEADING THROUGH QUALITY AND INNOVATION

We are aware of the challenges in the modern chemical industry. Through creative and innovative ideas we convey the changes brought about by scientific and societal progress, new legal regulations and globalization and pointedly support this development. We therefore mainly promote products with a good potential for the future and encourage procedures that have proven uncritical health wise and environmentally.

We guarantee the quality of our products and services by continuously improving our employees' qualifications and our work procedures and through the use of modern technical equipment.



# Services



Refilling and repacking of solid and liquid products Melting and tempering

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Synthesizing solutions and mixtures



Confidential handling of customer recipes

# Warehouse

We have about 8500 m<sup>2</sup> of storage area that can be used to store, refill and repackage products of different hazardous substance classes.

For our clients with a need for more flexibility or more regularity of supply we entertain our conveniently located warehouse in the center of Germany.

Thanks to foresightful and continuous expansion of our warehouse capacities we will also be able to offer you the possibility to react to your orders extremely flexible in the future. Our advantage thereby is the close proximity to big trade centers such as Hamburg harbor and the convenient road and rail transport connections.





# Logistics

Thanks to our in-house logistics department our products are transported by our own company transport fleet.









Large stock for flexible handling of products



Customs clearance / bonded warehouse

Overnight service

Logistics services

# Global product sourcing

In the globalizing world, the right sourcing in the right place is becoming more and more important, because the right product at the right quality and at the right price is what makes every company competitive. As an experienced chemicals specialist with a worldwide network, we can support you in this task.

# Mixtures & Solutions

We gladly accept the responsibility of manufacturing mixtures and solutions for you. For many years Jobachem GmbH has made a name for itself as a reliable supplier and service contractor. Nowadays we routinely supply to renowned and international companies of all different industries.

# Our services and equipment:

- Heatable polished stainless steel mixing tanks
- Refilling area with housing and suction and attached counterstream washers
- Homogenization of even highly viscous mixtures through different agitators
- Formulation of solventcontaining mixtures in explosion-proof atmosphere
- Refilling under inert gas
- Crushing machines
- Several semi and fully automated refilling equipment

- Integrated quality assurance for raw materials and finished products
- Production/Purchasing of labels and packaging
- Mixing



Solutions and mixtures can be produced according to your own recipes or will be developed to your specifications.

In both cases we guarantee confidential treatment of your provided information. Thanks to our warehouse we can store products to a great extent. Thus we can offer short delivery times and supply chain security.

# Products UV-/EB-Curing Chemicals

### Monomers

#### Mono-Functional Monomers

Product Name	CAS	EC
2-PEA, 2-Phenoxy Ethyl Acrylate	48145-04-6	256-360-6
ACMO, 4-(1-Oxo-2-Propenyl)- Morpholine	5117-12-4	418-140-1
CTFA, Cyclic Trimethylolpropane Formal Acrylate	66492-51-1	266-380-7
EOEOEA, 2-(2-Ethoxyethoxy) Ethyl Acrylate	7328-17-8	230-811-7
GMA, Glycidyl Methacrylate	106-91-2	203-441-9
HEMA, 2-Hydroxyethyl Methacrylate	868-77-9	212-782-2
HPMA, 2-Hydroxypropyl Methacrylate	27813-02-1	248-666-3
☞ IBOA, Isobornyl Acrylate	5888-33-5	227-561-6
☞ IBOMA, Isobornyl Methacrylate	7534-94-3	231-403-1
MMA, Methyl Methacrylate	80-62-6	201-297-1
THFA, Tetrahydrofurfuryl Acrylate	2399-48-6	219-268-7

### Monomers Di-Functional Monomers

Product Name	CAS	EC
DPGDA, Dipropylene Glycol Diacrylate	57472-68-1	260-754-3
HDDA, 1,6-Hexanediol Diacrylate	13048-33-4	235-921-9
NPG2PODA, Propoxylated (2) Neopen- tyl Glycol Diacrylate	84170-74-1	617-546-6
TPGDA, Tripropylene Glycol Diacrylate	42978-66-5	256-032-2

### Monomers Tri- and Multifunctional Monomers

Product Name	CAS	EC
DI-TMPTA, Ditrimethylolpropane Tetraacylate	94108-97-1	302-434-9
DPHA, Dipentaerythritol Hexaacrylate	1384855-91-7	800-838-4
©⊅ G3POTA, Propoxylated (3) Glyceryl Triacrylate	52408-84-1	500-114-5
PETIA, Pentaerythritol Triacrylate	1245638-61-2	629-850-6
PPTTA, Ethoxylated (5) Pentaerythritol Tetraacrylate	51728-26-8	500-111-9
TMP3EOTA, Ethoxylated (3) Trimethylolpropane Triacrylate	28961-43-5	500-066-5
TMPTA, Trimethylolpropane Triacrylate	15625-89-5	239-701-3
TMPTMA, Trimethylolpropane Trimethacrylate	3290-92-4	221-950-4



# Products UV-/EB-Curing Chemicals

### Oligomers

### Epoxy Acrylates

Product Name	CAS	EC
EP1400Z, Bisphenol-A-Epoxy Diacrylate	55818-57-0	500-130-2
EP1460A, Bisphenol-A-Epoxy Diacrylate in 40%	55818-57-0	500-130-2
Tripropylene Glycol Diacrylate (TPGDA)	42978-66-5	256-032-2
EP1475A, Bisphenol-A-Epoxy Diacrylate in 25%	55818-57-0	500-130-2
Tripropylene Glycol Diacrylate (TPGDA)	42978-66-5	256-032-2
EP1475C, Bisphenol-A-Epoxy Diacrylate in 25%	55818-57-0	500-130-2
Trimethylolpropane Triacrylate (TMPTA)	15625-89-5	239-701-3
EP1475X, Bisphenol-A-Epoxy Diacrylate in 25%	55818-57-0	500-130-2
Propoxylated (3) Glycerol Triacrylate (G3POTA)	52408-84-1	500-114-5
EP1480A, Bisphenol-A-Epoxy Diacrylate in 20%	55818-57-0	500-130-2
Tripropylene Glycol Diacrylate (TPGDA)	42978-66-5	256-032-2
EP1480B, Bisphenol-A-Epoxy Diacrylate in 20%	55818-57-0	500-130-2
Hexanediol Diacrylate (HDDA)	13048-33-4	235-921-9
EP1480C, Bisphenol-A-Epoxy Diacrylate in 20%	55818-57-0	500-130-2
Trimethylolpropane Triacrylate (TMPTA)	15625-89-5	239-701-3
©∋ EP1800W, Soybean Oil Acrylate, Epoxidized	91722-14-4	294-415-6

### Oligomers

Additives (On request) Amine Synergists (On request) Aliphatic Urethane Acrylates (On request) Aromatic Urethane Acrylates (On request) Full Acrylates (On request) Polyester Acrylates (On request) Polyether Acrylates (On request)



Bildquelle: Dr. Hönle AG

# Products UV-/EB-Curing Chemicals

### Photoinitiators

Product Name	CAS	EC
4-Methylbenzophenone	134-84-9	205-159-1
Benzophenone	119-61-9	204-337-6
Photoinitiator BMS	83846-85-9	281-064-9
Photoinitiator DETX	82799-44-8	280-041-0
Photoinitiator EMK	90-93-7	202-025-4
Photoinitiator MBF	15206-55-0	239-263-3
Photoinitiator OMBB	606-28-0	210-112-3
Photoinitiator RC 73	7473-98-5	231-272-0

Product Name	CAS	EC
Photoinitiator RC 84	947-19-3	213-426-9
Photoinitiator RC157 (Mixture Of RC73 + RC84)		
Photoinitiator RC 500		
Photoinitiator RC 651 BDK	24650-42-8	246-386-6
Photoinitiator RC 907	71868-10-5	400-600-6
Photoinitiator RC 2959	106797-53-9	402-670-3
Photoinitiator TMO	270586-78-2	884-585-5
Photoinitiator TPO-L	75980-60-8	282-810-6

Photoinitiator RC 81 (Eutectic Mixture Of BP + 4-MBP)

# Products Plasticizers

### Plasticizers

Product Name	CAS	EC
©⊅ Acetyl Tributyl Citrate (ATBC)	77-90-7	201-067-0
Srate (ATBC), Kosher	77-90-7	201-067-0
Diisononyl Phthalate (DINP)	28553-12-0	249-079-5
Diisononyl Adipate (DINA)	33703-08-1	251-646-7
Dioctyl Terephthalate (DOTP)	6422-86-2	229-176-9
Dioctyl Adipate (DEHA/DOA)	103-23-1	203-090-1
Phenoxyethanol*	122-99-6	204-589-7
Phenoxyethanol, Kosher*	122-99-6	204-589-7
Phenoxypropanol	770-35-4	212-222-7
Soybean Oil, Epoxidized (ESO/ESBO)	8013-07-8	232-391-0

Product Name	CAS	EC
©∂ Triacetin	102-76-1	203-051-9
☞ Triacetin, Food Grade	102-76-1	203-051-9
© ∂ Triacetin, Kosher	102-76-1	203-051-9
©	77-94-1	201-071-2
☞ Tributyl Citrate (TBC), Food Grade	77-94-1	201-071-2
☞ Tributyl Citrate (TBC), Kosher	77-94-1	201-071-2
© <sup>¬</sup> Triethyl Citrate (TEC)	77-93-0	201-070-7
☞ Triethyl Citrate (TEC), Food Grade	77-93-0	201-070-7
☞ Triethyl Citrate (TEC), Kosher	77-93-0	201-070-7
ECO-DEHCH Bis(2-Ethylhexyl) Cyclohexan-1,4-Dicarboxylat	84731-70-4	283-829-2





# Products Flavors & Fragrances

### Flavors & Fragrances

Product Name	CAS	EC
Aldehyde C16	77-83-8	201-061-8
Benzophenone-3	131-57-7	205-031-5
Benzophenone-4	4065-45-6	223-772-2
Benzyl Acetate	140-11-4	205-399-7
Benzyl Alcohol	100-51-6	202-859-9
Benzyl Alcohol, Food Grade	100-51-6	202-859-9
Benzyl Alcohol, Kosher	100-51-6	202-859-9
Campher DAB6	76-22-2	200-945-0
Cinnamic Alcohol	104-54-1	203-212-3
Cinnamic Aldehyde	104-55-2	203-213-9
Diphenyl Oxide / Diphenyl Ether	101-84-8	202-981-2
Diphenyl Oxide / Diphenyl Ether, Kosher	101-84-8	202-981-2
Ethyl Formate	109-94-4	203-721-0
Ethyl Formate, Kosher	109-94-4	203-721-0
Isobornyl Acetate	125-12-2	204-727-6
Methyl Salicylate	119-36-8	204-317-7
Nerolin Yara Yara	93-04-9	202-213-6
Phenethyl Alcohol	60-12-8	200-456-2

Product Name	CAS	EC
Phenethyl Alcohol, Kosher	60-12-8	200-456-2
Phenoxyethanol*	122-99-6	204-589-7
Phenoxyethanol, Kosher*	122-99-6	204-589-7
Phenoxypropanol	770-35-4	212-222-7
Phenylacetic Acid	103-82-2	203-148-6
Phenylacetic Acid, Kosher	103-82-2	203-148-6
Propylene Carbonate (PC)	108-32-7	203-572-1
Rose Crystals	90-17-5	201-972-0
∿∌ Triacetin	102-76-1	203-051-9
☞ Triacetin, Food Grade	102-76-1	203-051-9
∿⊅ Triacetin, Kosher	102-76-1	203-051-9
∿7 Tributyl Citrate (TBC)	77-94-1	201-071-2
☞ Tributyl Citrate (TBC), Food Grade	77-94-1	201-071-2
☞ Tributyl Citrate (TBC), Kosher	77-94-1	201-071-2
☞ Triethyl Citrate (TEC)	77-93-0	201-070-7
☞ Triethyl Citrate (TEC), Food Grade	77-93-0	201-070-7
∾ 7 Triethyl Citrate (TEC), Kosher	77-93-0	201-070-7

 $\mathbb{S}_{\mathcal{T}}$  Manufactured on the basis of renewable raw materials \* Different phenol grades available

# Products Special Chemicals

### Special Chemicals

Product Name	CAS	EC
4-Methylbenzophenone	134-84-9	205-159-1
8-Hydroxyquinoline	148-24-3	205-711-1
Aluminium Chloride	7446-70-0	231-208-1
Benzophenone	119-61-9	204-337-6
Benzyl Alcohol	100-51-6	202-859-9
Benzyl Alcohol, Food Grade	100-51-6	202-859-9
Benzyl Alcohol, Kosher	100-51-6	202-859-9
Biphenyl	92-52-4	202-163-5
Cyclopentene	142-29-0	205-532-9
Diethyl Carbonate (DEC)	105-58-8	203-311-1
Dimethyl Carbonate (DMC)	616-38-6	210-478-4
Diphenyl Oxide / Diphenyl Ether	101-84-8	202-981-2
Diphenyl Oxide / Diphenyl Ether, Kosher	101-84-8	202-981-2
JOBASOLV GBE (N-Butyl Glycolate)	7397-62-8	230-991-7



Product Name	CAS	EC
Maleic Anhydride	108-31-6	203-571-6
M-Xylelenediamine (MXDA)	1477-55-0	216-032-5
Optical Brightener 184	7128-64-5	230-426-4
Optical Brightening Agent CBS-X	27344-41-8	248-421-0
Paratoluene Sulfonic Acid (PTSA)	6192-52-5	260-754-3
Phenoxyethanol*	122-99-6	204-589-7
Phenoxyethanol, Kosher*	122-99-6	204-589-7
Phenoxypropanol	770-35-4	212-222-7
Potassium Fluoride	7789-23-3	232-151-5
Propylene Carbonate	108-32-7	203-572-1
Succinic Acid	110-15-6	203-740-4
Triethoxyoctylsilane (TEOS)	2943-75-1	220-941-2
Tetrabutyl Urea (TBU)	4559-86-8	224-929-8
Trioctyl Phosphate (TOP)	78-42-2	201-116-6

# **Bio-Based Products**

### **Bio-Based Products**

Product Name	CAS	EC
©	77-90-7	201-067-0
Sacetyl Tributyl Citrate (ATBC), Kosher	77-90-7	201-067-0
☞ EP1800W, Soybean Oil Acrylate, Epoxidized	91722-14-4	294-415-6
☞ G3POTA, Propoxylated (3) Glyceryl Triacrylate	52408-84-1	500-114-5
©⊅ IBOA, Isobornyl Acrylate	5888-33-5	227-561-6
©⊅ IBOMA, Isobornyl Methacrylate	7534-94-3	231-403-1
©⊅ Succinic Acid	110-15-6	203-740-4
Soybean Oil, Epoxidized (ESO/ESBO)	8013-07-8	232-391-0

Product Name	CAS	EC
©∂ Triacetin	102-76-1	203-051-9
©⊅ Triacetin, Food Grade	102-76-1	203-051-9
©∂ Triacetin, Kosher	102-76-1	203-051-9
©∂ Tributyl Citrate (TBC)	77-94-1	201-071-2
☞ Tributyl Citrate (TBC), Food Grade	77-94-1	201-071-2
©∂ Tributyl Citrate (TBC), Kosher	77-94-1	201-071-2
© ∂ Triethyl Citrate (TEC)	77-93-0	201-070-7
☞ Triethyl Citrate (TEC), Food Grade	77-93-0	201-070-7
©∂ Triethyl Citrate (TEC), Kosher	77-93-0	201-070-7



 $\sigma_{\mathcal{T}}$  Manufactured on the basis of renewable raw materials

## Products Heat Transfer Liquids



Today heat transfer liquids play an important role in nearly all producing industries and their requirements in quality and specific characteristics increase constantly. It is therefore extremely important to have a reliable supplier as a partner that supports you and meets your requirements. The strength of Jobachem GmbH is to act flexible towards new requirements and to offer you tailored solutions.

Our current product line contains four different synthetic heat transfer liquids.

#### Jobatherm® I

Its field of application is liquid phase between 12°C and 400°C respectively vapor phase between 257°C and 400°C. The eutectic intermixture of diphenyl ether and diphenyl not only provides an outstanding thermal stability. It also has a low viscosity and only crystallizes at a temperature lower than 12°C. The maximum film temperature is 426°C.

#### Jobatherm® 23

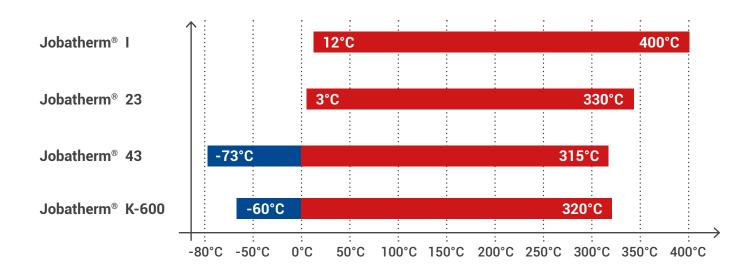
Jobatherm<sup>®</sup> 23 can be used in liquid phase between 3°C and 330°C. Vapor phase operation is possible from 243°C at atmospheric pressure up to 330°C at a vapor pressure of about 7 bar. The maximum film temperature is 357°C.

#### Jobatherm® 43

Jobatherm<sup>®</sup> 43 can be used in liquid phase between -73°C and 315°C and in vapor phase between 181°C and 315°C. The maximum film temperature is 340°C. Through its broad temperature spectrum Jobatherm 43 is suited for heating as well as cooling processes and thereby offers outstanding viscosity. Furthermore it has excellent pumpability even at -73°C.

#### Jobatherm® K-600

Jobatherm® K-600 is a synthetic heat transfer fluid used in nonpressurized / low-pressure, indirect heating systems. The mixture is mainly based on "Benzene, mono-C10-13-alkyl derivs., distn. residues", CAS# 84961-70-6, EC# 284-660-7 in a concentration of 90 - <100 %.







#### JOBACHEM GmbH

Am Burgberg 13 37586 Dassel Deutschland

- +49 5564 200 78-0
  +49 5564 200 78-11
- 🔄 info@jobachem.com

#### JOBACHEM Ltd.

Room 313, 3/F, Central Building, Pedder Street, Hong Kong Central, Hong Kong

+86 512 62927368-101

🔄 info@jobachem.com

#### JOBACHEM Trading Qingdao Co., Ltd.

Room 1108, Block B, Guofa Building, No. 36, Miaoling Road Laoshan Sistrict, PC. 266061 Qingdao China

**\$** +86 532 80999897

≥ info@jobachem.com

JOBACHEM Suzhou Co., Ltd.

Rm 1802, Guoshou Financial Center,

Building 24 Yuanrong Times Square,

No. 268 Wangdun Rd, Suzhou 215028,

#### JOBACHEM L.P.

271 17th Street NW, Suite #1750 Atlanta, GA 30363 USA

└ +1 (678)681-3187info@jobachem.com

#### JOBACHEM Chongqing

30th Floor, Longhu Ziduxingzuo Building A, 1st Branch, YuSong Rd., Yubei District, Chongqing China

- +86 512 62927368
- ✓ info@jobachem.com

China

#### **\$** +86 23 6789 6515

🔽 info@jobachem.com