PRODUCT OVERVIEW
WASTE WATER TREATMENT

C.H. Erbslöh KG
Düsseldorfer Straße 103
47809 Krefeld
Telephone 0 2151 / 525 00
Fax 0 2151 / 525 106
www.cherbsloeh.com

... we clarify it!
Who we are?

- Distributor for specialty chemicals and minerals. Privately owned company by. Carl Hugo Erbslöh (in 4. / 5. generation)
- Founded 1876
- Since 1992 in Krefeld
- 85 employees in Germany, 140 employees in Europe
- Ca. 48.7 Mio. € Sales in Germany, ca. 65 Mio. € sales in Europe
- Market oriented organisation:

  lubrication / paints / coating / building industry / adhesives / ceramics / rubber / plastics / electronic industry / industrial cleaning / waste water treatment / cosmetics / pharmacy / food / detergents

Covering Europe:

- Subsidiaries in Europe:
  
  Germany / Poland / Lithuania / Switzerland / Austria / Benelux / Scandinavia / Russia / Hungary

- Member of the LEL-Group:

  Lavollée Chimie, France / C. H. Erbslöh / Lake, GB / Urai, Italy / Zeus, Spain, Portugal / Kemiropa, Turkey

  International partnership with technically oriented sales organisation.

Certifications:

DIN EN ISO-9001:2000
We take part in ESAD and Responsible Care Program

Your benefits – our strengths:

- Technical service and advice considering systems and applications.
- We offer a wide product range for YOUR applications – all in one go – reliable and fast!
- Supply in small quantities - depending on YOUR needs and product.
- Tall manufacturing
- Customer tailored synthesis
Your Contacts for Wastewater Treatment:

Manager SBU WE Europe:
Peter Storz  Tel: +49 7363 920802  Mobile: +49 172 5171971  pstorz@che-kg.de

Account Manager Germany:
Günter Nowak  Tel: +49 7195 950105  Mobile: +49 172 2105347  gnowak@che-kg.de
Michael Kück  Tel: +49 2151 525263  Mobile: +49 173 5135385  mkueck@che-kg.de
Joachim Wunsch  Tel: +49 2373 66635  Mobile: +49 172 5171957  jwunsch@che-kg.de

Sales Service Germany:
Lina Albrecht  Tel: +49 2151 525267  lalbrecht@che-kg.de
Linda Kahlen  Tel: +49 2151 525264  lkahlen@che-kg.de
Monika Leyers  Tel: +49 2151 525266  mleyers@che-kg.de

Laboratory Wastewater Treatment:
Michael Kück  Tel: +49 2151 525263  Mobile: +49 173 5135385  mkueck@che-kg.de

Account Manager Austria / Switzerland:
Mario Saiger  Tel.: +43 6245 7149311  Mobile.:+43 664 165 6682  MSaiger@erbsloeh.ch
To.: +41 43 3005522

Sales Service Austria / Switzerland:
Andrea Angerer  Tel: +43 6245 7149313  AAngerer@erbsloeh.at
Tiziana Rugieri  Tel: +41 43 3005520  TRugieri@erbsloeh.ch

Account Manager Poland:
Arkadiusz Walkiewicz  Tel.: +48 228991944

Account Manager Benelux:
Chris Pint  Tel.: +32 23610265

Account Manager Austria
Mario Saiger  Tel.: +43 6245 7149311

Account Manager Russia:
Andrew Syurakshin  Tel.: +74 956498813

Account Manager Switzerland:
Mario Saiger  Tel.: +41 433005522

Account Manager Hungary:
office  Tel.: +36 14644817

Account Manager Baltic:
Donatas Kalvaitis  Tel.: +37 037333805

Account Manager Scandinavia:
Søren Sneholt  Tel.: +45 39292778
## Overview:

<table>
<thead>
<tr>
<th>Category</th>
<th>Product(s)</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flocculants</td>
<td>Secused®</td>
<td>5</td>
</tr>
<tr>
<td>Flocculants, mineral based</td>
<td>Neosorb®</td>
<td>5-6</td>
</tr>
<tr>
<td>Coagulation, Precipitation and Adsorbent Agents</td>
<td>Novofloc®</td>
<td>6</td>
</tr>
<tr>
<td>Precipitation of Heavy Metals</td>
<td>Plexon®, CHE®-MEX</td>
<td>7</td>
</tr>
<tr>
<td>Defoamer</td>
<td>CHE®-COAT-DF, Silcolapse®</td>
<td>7-8</td>
</tr>
<tr>
<td>Other Products</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>
**OUR PRODUCTS FOR WASTE WATER TREATMENT**

**Secused®**  
*Flocculants, Polyacrylates, anionic or cationic based. Powder or Emulsion.*

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secused® A 85 P</td>
<td>Anionic All-rounder. Powder</td>
</tr>
<tr>
<td>Secused® A 44 F</td>
<td>Anionic All-rounder. Emulsion</td>
</tr>
<tr>
<td>Secused® K 75 P</td>
<td>Cationic All-rounder. Powder</td>
</tr>
<tr>
<td>Secused® K 80 F</td>
<td>Cationic All-rounder. Emulsion</td>
</tr>
<tr>
<td>Secused® N 176 P</td>
<td>Nonionic All-rounder. Powder</td>
</tr>
<tr>
<td>Secused® N 103 F</td>
<td>Nonionic All-rounder. Emulsion</td>
</tr>
</tbody>
</table>

*Other products for special applications on request*

**Neosorb®**  
*Flocculants mineral based*

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neosorb® F-52</td>
<td>Universal starter product for industrial wastewaters.</td>
</tr>
<tr>
<td>Neosorb® FT-52</td>
<td>Special alternative for reduction of complex bounded heavy metals (good against Cu!).</td>
</tr>
<tr>
<td>Neosorb® GS-AN</td>
<td>Product for high deposition industrial wastewaters (eloxal, electro plating, slide grinding, recycling!).</td>
</tr>
<tr>
<td>Neosorb® VAN</td>
<td>Special product (among other things. reduction of chromate containing in wastewaters!).</td>
</tr>
<tr>
<td>Neosorb® MEX-L</td>
<td>Special product for complex bounded electronic plating wastewaters (good against Ni, Zn!).</td>
</tr>
<tr>
<td>Neosorb® DEI</td>
<td>All-rounder for all industrial wastewaters with high solid content / for reduction of COD / AOX / CHC.</td>
</tr>
<tr>
<td>Neosorb® DEI-N</td>
<td>Product for low deposition wastewaters (sludge not sticky, high solid content!).</td>
</tr>
<tr>
<td>Neosorb® KUF</td>
<td>Classical product for electronic plating wastewaters and precipitation of not complex bounded heavy metals (low salt content!).</td>
</tr>
<tr>
<td>Neosorb® KUF-SF</td>
<td>Special product with short reaction time and high adsorption (low salt content!).</td>
</tr>
<tr>
<td>Neosorb® KUF-G</td>
<td>Special high active granulated powder (reduction of dust deployment, fast release, strong against grease, oil, etc.).</td>
</tr>
<tr>
<td><strong>Neosorb</strong>&lt;sup&gt;®&lt;/sup&gt; EMU-V</td>
<td>Special product for clarifying resist wastewaters of the printed circuit board industry. Splitting of solid oil-water emulsions. Effective in removing of organic colorants und surfactant.</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Neosorb</strong>&lt;sup&gt;®&lt;/sup&gt; EMU-SP</td>
<td>Highly effective All-rounder with short reaction times and excellent sedimentation speed</td>
</tr>
<tr>
<td><strong>Neosorb</strong>&lt;sup&gt;®&lt;/sup&gt; EMU-SPC</td>
<td>Special product for reduction of complex bounded heavy metals (strong against Zn/Ni!) and for wastewaters with high CSB.</td>
</tr>
<tr>
<td><strong>Neosorb</strong>&lt;sup&gt;®&lt;/sup&gt; EMU-S</td>
<td>High performance splitting agent for dispersions (among other things from the construction chemistry!). Even applicable for highly concentrated defatting- and cleaning wastewaters of the electronic plating industry.</td>
</tr>
<tr>
<td><strong>Neosorb</strong>&lt;sup&gt;®&lt;/sup&gt; EMU-B1</td>
<td>Special product for splitting stable oil-in-water emulsions with high adsorption.</td>
</tr>
<tr>
<td><strong>Neosorb</strong>&lt;sup&gt;®&lt;/sup&gt; EMU-B6</td>
<td>Highly effective universal splitting product for emulsions and dispersions for wastewaters of all industrial branches.</td>
</tr>
<tr>
<td><strong>Neosorb</strong>&lt;sup&gt;®&lt;/sup&gt; C5</td>
<td>New high effective all-rounder, special for the electronic plating industry and the metal industry.</td>
</tr>
</tbody>
</table>

**Novofloc**<sup>®</sup>

*Primary Flocculants, emulsion division*

| **Novofloc**<sup>®</sup> 48 | Inorganic all-rounder for contaminated wastewater (defatting, emulsions, tensids, etc.). |
| **Novofloc**<sup>®</sup> 59 | Inorganic special product for assistance at heavy metal precipitation and flocculation (even applicable for Plexon<sup>®</sup>-overspill withdrawal!). |
| **Novofloc**<sup>®</sup> 124 | Universal applicable adsorption agent on herbal base. Splitting and flocculating of weak dispersions and emulsions. |
| **Novofloc**<sup>®</sup> FEX 5 | Special product for the removal of discolorations and precipitation of contaminants. |
**Plexon®-Series**  
precipitation of heavy metals based on dimethyl dithiocarbamate

<table>
<thead>
<tr>
<th>Plexon® 1105</th>
<th>Standard product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plexon® 1105P</td>
<td>Standard product (powder)</td>
</tr>
<tr>
<td>Plexon® 2210</td>
<td>All-rounder against strong complex builder, smellmodificatet.</td>
</tr>
<tr>
<td>Plexon® 3315</td>
<td>Product for special applications. (among other things Zn-/Ni-Wastewater, PCB-Wastewater etc.)</td>
</tr>
<tr>
<td>Plexon® 6630</td>
<td>Product for special applications, smellmodificatet. (among other things Zn-Composition-Wastewater etc.).</td>
</tr>
</tbody>
</table>

**CHE®-MEX-Series**  
precipitation of heavy metals based on organosulphide or inorganic cross-linked sulphides

<table>
<thead>
<tr>
<th>CHE®-MEX-TMT</th>
<th>Standard product for power plants and refuse destruction etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE®-MEX-PSD</td>
<td>Neutral smell and eco-friendly alternative to Na₂S.</td>
</tr>
<tr>
<td>CHE®-MEX-OECO1</td>
<td>All-rounder, precipitates even elemental metals; eco-friendly, Water hardness class 1.</td>
</tr>
<tr>
<td>CHE®-MEX-OECO2</td>
<td>Special product for the battery industry (Ni/Cd), WPC 1</td>
</tr>
</tbody>
</table>

**CHE®-COAT-DF and other defoamers**

<table>
<thead>
<tr>
<th>CHE®-COAT-DF 581B</th>
<th>Foam destroyer, mixture of light mineral oil and not-ionic surfactants. APEO-free, silicon free</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE®-COAT-DF 691</td>
<td>Mixture of mineral oil and non-ionic surfactant. APEO- and silicon free.</td>
</tr>
<tr>
<td>FoamFree 940®</td>
<td>Defoamer based on non-ionic surfactants, silicone free, mineral oil free, electronic plating bath qualified</td>
</tr>
<tr>
<td>Silcolapse® RG 12 (Former: Rhodorsil®)</td>
<td>Non ionic 10% emulsion, based on Dimethylpolysiloxanoil, applicable for organic wastewater treatment, pulp industry, agro industry, distillation/extraction.</td>
</tr>
<tr>
<td>Silcolapse® RG 22 (Former: Rhodorsil®)</td>
<td>20% silicon based emulsion, applicable for aqueous and alcoholic systems, develops for biological waste water treatment, Foam suppression in digestion towers, pulp and paper industry.</td>
</tr>
<tr>
<td>Silcolapse® 140 (Former: Rhodorsil®)</td>
<td>Non-ionic aqueous emulsion based on Dimethylpolysiloxane, (30 %), applicable for biological wastewater treatment, digestion towers and extraction/distillation.</td>
</tr>
</tbody>
</table>
Silcolapse® 1824  
(Former: Rhodorsil®)  
Non-ionic aqueous emulsion based on silicone, 30%, applicable for biological wastewater treatment, pulp and paper industry. extraction/distillation

**Other Products**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE® Liquisorb</td>
<td>Series of high effective fluid adsorption agents for reduction of COD / AOX / CHC, removal of surfactants and detached colours, inbounding of finishes.</td>
</tr>
<tr>
<td>CHE® Novocrack</td>
<td>Series of organic-synthetic emulsion splitting agents with short reaction times, without increasing sludge quantity!</td>
</tr>
<tr>
<td>Granucol® WS</td>
<td>Pelletized activated carbon. „Water soluble“. Bath preparation, reduces PFOS / PFT in wastewaters</td>
</tr>
<tr>
<td>Ikomont B</td>
<td>Activated bentonit, adsorbent agent.</td>
</tr>
<tr>
<td>Glokill® PQ</td>
<td>Polymer Quad. Bloc nitrification processes, kills Bacteria. Support of chlorination. Can be used also in swimming pools and cooling water.</td>
</tr>
</tbody>
</table>

Certainly our team, consisting of skilled waste water engineers, will help you to find the product which is fitting best in your application. We will work out individual concepts for waste water treatment (on the spot support or at our lab) to solve your waste water problem.

If you like to solve your wastewater problems on your own, we would be pleased to send you a selection of our products for laboratory tests.
# Adresses C. H. Erbslöh in Europe:

<table>
<thead>
<tr>
<th>Region</th>
<th>Address Details</th>
</tr>
</thead>
</table>
| **Head Quarter:** | C. H. Erbslöh KG  
Düsseldorfer Str. 103  
D-47809 Krefeld       |
| **Austria:**     | C. H. Erbslöh GmbH  
Am Ausfergenufer 4  
A-5400 Hallein       |
| **Baltic:**      | C.H. Erbslöh Baltic Ltd.  
J.Zemgulio 25  
Kaunus LT 50247     |
| **Tel:**         | +49 2151 52500  
Fax: +49 2151 525106  
www.che-chemicals.com |
| **Tel:**         | +43 6245 7149310  
Fax: +43 6245 7149340  
www.che-chemicals.com |
| **Tel:**         | +3703 7333 805  
Fax: +3703 7333 736  
www.che-chemicals.com |
| **Belgium:**     | C.H. Erbslöh Benelux N.V.  
p/a Marteyn & Keymeulen  
B-1082 Sint-Agata-Berchem       |
| **Hungary:**     | C.H. Erbslöh Hungaria kft  
Orczy út 6.  
H-1089 Budapest   |
| **Netherlands:** | C. H. Erbslöh Benelux B.V.  
Noorderpoort 73  
NL 5916 PJ Venlo |
| **Tel:**         | +32 23610265  
Fax: +32 23610265  
www.che-chemicals.com |
| **Tel:**         | +36 1464 4817  
Fax: +36 16464991  
www.che-chemicals.com |
| **Tel:**         | +31 77 3524 636  
Fax: +31 77 3514 017  
www.che-chemicals.com |
| **Poland:**      | C. H. Erbslöh Polska Sp.z.oo.  
Ul. Fabiarska 69  
PL-02-862 Warszawa |
| **Scandinavia:** | C.H. Erbslöh Bionord ApS  
Solundsvej 2  
DK-2100 Kopenhagen |
| **Sweden:**      | C. H. Erbslöh Switzerland Ltd.  
Rötelstrasse 28  
CH-8006 Zürich |
| **Tel:**         | +48 22 899 1944  
Fax: +48 22 899 1947  
www.che-chemicals.com |
| **Tel:**         | +46 4032 0532  
Fax: +46 3929 2778  
www.che-chemicals.com |
| **Tel:**         | +41 3005 522  
Fax: +41 3005 533  
www.che-chemicals.com |

# Adresses LEL-Group:

<table>
<thead>
<tr>
<th>Region</th>
<th>Address Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lake Chemicals &amp; Minerals LTD</strong></td>
<td></td>
</tr>
</tbody>
</table>
Imex Business Centre  
Oxleasow Road,  
East Moons Moat, Redditch  
Worcestershire, B98 0RE  
Great Britain       |
| **Tel:**       | +49 2151 52500  
Fax: +49 2151 525200  
www.che-chemicals.com |
| **Tel:**       | +33 1 46 39 88 65  
Fax: +33 1 46 39 09 58  
www.lavollee-chimie.com |
| **C. H. Erbslöh KG.** |  
Düsseldorfer Str. 103  
D-47809 Krefeld  
Germany       |
| **Lavollée Chimie S.A.** |  
9, Rue Louis Rouquier  
F-92300 Levallois  
France |
| **Tel:**       | +49 2151 52500  
Fax: +49 2151 525200  
www.che-chemicals.com |
| **Tel:**       | +33 1 46 39 88 65  
Fax: +33 1 46 39 09 58  
www.lavollee-chimie.com |
| **URAI S.p.A.** |  
Milanofiori Palazzo E2  
20090 Assago (Milano)  
Italy       |
| **Zeus Química S.A.** |  
Santalo 152 - 154  
08021 Barcelona  
Spain       |
| **Kemiropa Ltd. STI** |  
Haydar Aliyev Cad. No: 202/3  
34457 Tarabya-Istanbul  
Turkey       |
| **Tel:**       | +39 02 8923991  
Fax: +39 02 8258020  
www.urai.it |
| **Tel:**       | +34 93 240 2222  
Fax: +34 93 240 2223  
www.zeusquimica.com |
| **Tel:**       | Phone +90 212 299 21 21  
Fax: +90 212 299 94 75  
www.kemiropa.com.tr |