

## Selected specialties

| Product range Hedipin™, Hedilub™, Imbentin™ | Chemical description            | Form at 25 °C | CAS-number | Average molecular weight [g/mole] | Active matter [%] | Viscosity [mPa·s] | Detergent Regulation | Detergent, H&E cleaner | Textile auxiliaries | Lubricants | Technical emulsifiers | Polymerisation & plastics | Coatings & concrete | Agro chemicals |
|---|---------------------------------|---------------|------------|-----------------------------------|-------------------|-------------------|----------------------|------------------------|---------------------|------------|-----------------------|---------------------------|---------------------|----------------|
|   |                                 |               |            |                                   |                   |                   |                      |                        |                     |            |                       |                           |                     |                |
| Hedipin-IDTR                                | Tri (isodecyl) trimellitate     | liquid        | 36631-30-8 | 210                               | >99.5             | 40°C 125          |                      |                        |                     | ✓          |                       |                           |                     |                |
| Hedipin-ITS                                 | Isotridecyl stearate            | liquid        | 95912-88-2 | 430                               | >99.7             | 20°C 26           |                      |                        | ✓                   | ✓          |                       |                           |                     |                |
| Hedipin-IOIO                                | Isooctyl iso octanoate          | liquid        | 7425-14-1  | 250                               | >99.5             | 40°C 2.8          |                      |                        | ✓                   | ✓          |                       |                           | ✓                   |                |
| Hedipin-LBZ                                 | Lauryl benzoate                 | liquid        | 68411-27-8 | 310                               | >99.5             | 25°C 10           | ◆                    |                        | ✓                   |            |                       |                           | ✓                   |                |
| Hedipin-OBZ                                 | Octyl benzoate                  | liquid        | 5444-75-7  | 240                               | >99.8             |                   |                      |                        |                     |            |                       |                           | ✓                   |                |
| Hedipin-MEL/5/K(1)                          | Methyl propylene glycol cocoate | liquid        | n.a.       | 700                               | n.a.              | 20°C 55           | ◆                    | ✓                      | ✓                   |            | ✓                     |                           |                     |                |
| Hedipin-OFC                                 | Octanol ethoxy caprylate        | liquid        | n.a.       | 600                               | n.a.              | 20°C 37           |                      |                        | ✓                   |            |                       |                           |                     |                |
| Hedipin-PEDS G(1)                           | Pentaerythritol ester           | pellets       | 13081-97-5 | 690                               | >99.0             |                   |                      |                        | ✓                   |            | ✓                     |                           | ✓                   |                |
| Hedilub-DOA                                 | Di (2-ethylhexyl) adipate       | liquid        | 103-23-1   | 370                               | >99.8             | 25°C 10           | ◆                    |                        | ✓                   | ✓          |                       |                           | ✓                   |                |
| Hedilub-LB/504                              | 2-ethylhexyl oleate             | liquid        | 84988-77-2 | 390                               | n.a.              | 40°C 8            |                      |                        |                     | ✓          |                       |                           |                     |                |
| Hedilub-LB/508                              | Di (isotridecyl) adipate        | liquid        | 26401-35-4 | 510                               | >99.5             | 40°C 30           |                      |                        |                     | ✓          |                       |                           |                     |                |
| Imbentin-AGM/37 G                           | Blend                           | pellets       | 9005-00-9  |                                   | >99.0             | 60°C 50           |                      |                        |                     |            | ✓                     |                           |                     |                |
| Imbentin-HSC                                | Functional blend                | liquid        | n.a.       |                                   | >99.0             |                   | ◆                    | ✓                      |                     |            |                       |                           |                     |                |
| Hedipin-SHO/500                             | PEG-50 sorbitan hexaoleate      | liquid        | 57171-56-9 | 3700                              | >99.0             | 25°C 200          |                      |                        |                     | ✓          |                       |                           | ✓                   |                |

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| Product name   | Chemical description                               | Form at 25 °C | CAS-number | Active matter [%] | Cloud point [°C]<br>1% in deion. H <sub>2</sub> O | Cloud point [°C]<br>5g in 25g BDG 25 % | Other methods | Detergent, H&E I&E<br>cleaner | Textile auxiliaries | Lubricants | Technical emulsifiers | Polymerisation & plastics | Coatings & concrete | Agro chemicals |
|----------------|--|---------------|------------|-------------------|---|--|---------------|-------------------------------|---------------------|------------|-----------------------|---------------------------|---------------------|----------------|
| Imbentin-BN/55 | Beta naphthol, ethoxylated                         | liquid        | 35545-57-4 | >99.7             |   |  | 68 (I)        |                               |                     |            |                       |                           |                     |                |
| Produkt-HF/2   | Styrol phenol, ethoxylated                         | liquid        | n.a.       | >99.8             |   | 65                                     |               |                               | ✓                   |            |                       |                           |                     |                |
| Hedilub-EM/307 | Triglycerid esters, ethoxylated                    | liquid        | n.a.       | n.a.              |   |  |               |                               |                     | ✓          | ✓                     |                           |                     |                |
| Hedilub-EM/404 | Blend triglyceride and sorbitol based, ethoxylated | liquid        | n.a.       | n.a.              |   |  |               |                               |                     | ✓          | ✓                     |                           |                     |                |

## Technical emulsifiers

| Product range Hedimuls™ | Chemical description | HLB value | Form at 25 °C | Active matter [%] | FDA approval | Oil phase            | Coatings & concrete |
|-------------------------|----------------------|-----------|---------------|-------------------|--------------|----------------------|---------------------|
| Hedimuls-LO/01          | Blend                | 10.5      | pasty         | >98.0             | S            | Linseed oil          | ✓                   |
| Hedimuls-PW/01          | Blend                | 10.0      | solid         | >98.0             | S            | Paraffin wax (50/52) | ✓                   |
| Hedimuls-SOP/02         | Blend                | 8.5       | solid         | >99.4             | S            | Silicon oil PDMS     | ✓                   |

