



**We keep an eye  
on your growth**

**AGRO SOLUTIONS**  
Adjuvants and Additives



## About LEVACO

**LEVACO Chemicals GmbH** has over 50 years of experience in manufacturing additives for applications in agrochemicals, fibre production and for paints and coatings.

The company produces dispersants, emulsifiers, wetting agents and anti-foaming agents.

The Agro Solutions team provides in-depth knowledge of the development, production and application of additives and adjuvants in different agrochemical formulations.

The products are under the trade names of **LUCRAMUL®**, **LUCRAFOAM®** and **LUCROP®**.

LEVACO also manufactures chemicals for major chemical companies on a contractual basis.

The headquarter and production facilities are located in the Chempark Leverkusen, Germany.

The company also has an office in Hong Kong, **LEVACO Far East Limited**.

**LEVACO Chemicals GmbH** is a member of the Diersch & Schröder Group located in Bremen, Germany.



## Suspension Concentrate (SC)

### Dispersing agents

Trade name	Chemistry	Property	EPA
LUCRAMUL® PS 16	TSP <sup>†</sup> ethoxylate	Nonionic dispersant	✓
LUCRAMUL® PS 29	TSP <sup>†</sup> ethoxylate	Nonionic dispersant	✓
LUCRAMUL® PS 54	TSP <sup>†</sup> ethoxylate	Nonionic dispersant	✓
LUCRAMUL® SPS 16	TSP <sup>†</sup> ethoxylate ether sulfate ammonium salt	Anionic dispersant	✓
LUCRAMUL® PPS K 16	TSP <sup>†</sup> ethoxylate phosphate potassium salt	Anionic dispersant	✓
LUCRAMUL® PPS A 16	TSP <sup>†</sup> ethoxylate phosphate triethanolamine salt	Anionic dispersant	✓
LUCRAMUL® PPS A 16/60	TSP <sup>†</sup> ethoxylate phosphate triethanolamine salt	Anionic dispersant	✓
LUCRAMUL® GCP 01	Graft copolymer	Nonionic dispersant	✓
LUCRAMUL® GCP 02	Graft copolymer	Anionic dispersant	*
LUCRAMUL® AG 201	TSP <sup>†</sup> alkoxylate	Nonionic dispersant	✓
LUCRAMUL® AG 411	Alkyl alkoxylate	Nonionic dispersant	*
LUCRAMUL® AG 433	Alkyl alkoxylate	Nonionic dispersant	✓
LUCRACHEM® EPC 07	EO/PO blockcopolymer	Nonionic dispersant	✓

<sup>†</sup> TSP = Tristyrylphenol

\* EPA can be submitted on request

### Adjuvants

Trade name	Chemistry	Property	EPA
LUCRAMUL® DWS	Surfactant blend	Matched pair dispersing and wetting agent	*
LUCRAMUL® AG 489	Surfactant blend	Matched pair dispersing and wetting agent	*
LUCRAMUL® DIWA	Surfactant blend	Matched pair dispersing and wetting agent	*
LUCRAMUL® EXG	Natural polymer based	Rheology modifier	*

\* EPA can be submitted on request

### Defoamers

Trade name	Chemistry	Property	EPA
LUCRAFOAM® S 01	Silicone containing	Low silicone content	*
LUCRAFOAM® S 04	Silicone containing	High silicone content	*
LUCRAFOAM® PDT	Mineral oil containing	Silicone free	*

\* EPA can be submitted on request



## Soluble Liquid (SL)

### Built in solution

Trade name	Chemistry	Property	EPA
LUCRAMUL® AG 4802	Aqueous surfactant blend (TFA free)	Compatible with glyphosate/glufosinate	*
LUCRAMUL® AG 4820	Aqueous surfactant blend (TFA free)	Compatible with glyphosate/glufosinate	*

\* EPA can be submitted on request

## Emulsifiable Concentrate (EC)

### Emulsifiers

Trade name	Chemistry	Property	EPA
LUCRAMUL® L 10	Alkyl ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® C 13/8	Branched alkyl ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® PS 16	TSP <sup>†</sup> ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® CO 30	Castor oil ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® CO 40	Castor oil ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® SMO 20	Sorbitan monooleate ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® SML 20	Sorbitan monolaurate ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® STO 20	Sorbitan trioleate ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® DBA B	Calcium dodecyl benzene sulfonate in <i>n</i> -butanol	Anionic emulsifier	✓
LUCRAMUL® DBIB	Calcium dodecyl benzene sulfonate in <i>i</i> -butanol	Anionic emulsifier	✓
LUCRAMUL® DBEH	Calcium dodecyl benzene sulfonate in 2-ethylhexanol	Anionic emulsifier	✓
LUCRAMUL® 1061	Anionic/nonionic emulsifier blend	Matched pair	✓
LUCRAMUL® ECCO 1	Anionic/nonionic emulsifier blend	Matched pair - low HLB	*
LUCRAMUL® ECCO 2	Anionic/nonionic emulsifier blend	Matched pair - high HLB	*
LUCRAMUL® ECCO 4	Anionic/nonionic emulsifier blend	Matched pair - high HLB	*
LUCRAMUL® ECCO 5	Anionic/nonionic emulsifier blend	Matched pair - low HLB	*

<sup>†</sup> TSP = Tristyrylphenol

\* EPA can be submitted on request

### Adjuvants

Trade name	Chemistry	Property	EPA
LUCRAMUL® AG 411	Alkyl alkoxylate	Humectant/additive for polar solvents	✓
LUCRAMUL® AG 433	Alkyl alkoxylate	Humectant/additive for polar solvents	✓

## Oil Dispersion (OD)

### Emulsifiers

Trade name	Chemistry	Property	EPA
LUCRAMUL® L 03	Alkyl ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® L 05	Alkyl ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® 1819 DB	Oleyl ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® CO 08	Castor oil ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® CO 30	Castor oil ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® SO 21	Soy oil ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® SMO 20	Sorbitan monooleate ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® SML 20	Sorbitan monolaurate ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® STO 20	Sorbitan trioleate ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® ADD 01	Modified vegetable oil ethoxylate	Nonionic emulsifier	✓
LUCRAMUL® OSE 04	Emulsifier blend	Matched pair	*
LUCRAMUL® DBA B	Calcium dodecyl benzene sulfonate in <i>n</i> -butanol	Anionic emulsifier	✓

\* EPA can be submitted on request

### Adjuvants

Trade name	Chemistry	Property	EPA
LUCRAMUL® AG 101	Alkyl alkoxylate	Ultra-fast spreading, penetrating	✓
LUCRAMUL® AG 103	Alkyl alkoxylate	Spreading, penetrating	✓

## Suspo-emulsion (SE)

### Dispersing agents

Trade name	Chemistry	Property	EPA
LUCRAMUL® GCP 01	Graft copolymer	Nonionic dispersant	✓
LUCRAMUL® GCP 02	Graft copolymer	Anionic dispersant	*
LUCRAMUL® AG 433	Alkyl alkoxylate	Nonionic dispersant	✓
LUCRAMUL® AG 489	Surfactant blend	Matched pair dispersing and wetting agent	*

\* EPA can be submitted on request

### Defoamers

Trade name	Chemistry	Property	EPA
LUCRAFOAM® S 01	Silicone containing	Low silicone content	*
LUCRAFOAM® S 04	Silicone containing	High silicone content	*
LUCRAFOAM® PDT	Mineral oil containing	Silicone free	*

\* EPA can be submitted on request



## Wettable Powders (WP) and Water Dispersible Granules (WDG/WG)

### Dispersing agents

	<b>Chemistry</b>	<b>Property</b>	<b>EPA</b>
<b>LUCRAMUL® DAC 210 dry</b>	Condensed ketone sulfonate	Solid dispersing agent	*
<b>LUCRAMUL® DAC 220</b>	Condensed naphthalene sulfonate	Solid dispersing agent	✓
<b>LUCRAMUL® DAC 230</b>	Condensed naphthalene sulfonate	Solid dispersing agent	✓

\* EPA can be submitted on request

### Defoamer

<b>Trade name</b>	<b>Chemistry</b>	<b>Property</b>	<b>EPA</b>
<b>LUCRAFOAM® DDF</b>	Sodium alkylate	Solid defoamer	✓

### Specialities - Wetting Agents

<b>Trade name</b>	<b>Chemistry</b>	<b>Property</b>	<b>EPA</b>
<b>LUCRAMUL® AG 101</b>	Alkyl alkoxylate	Ultra-fast spreading, penetrating	✓
<b>LUCRAMUL® AG 103</b>	Alkyl alkoxylate	Spreading, penetrating	✓
<b>LUCRAMUL® AG 131 90%</b>	Alkyl alkoxylate	Spreading, penetrating	✓
<b>LUCRAMUL® AG 108</b>	Alkyl alkoxylate	Spreading, penetrating	✓



## Tank-mix adjuvants

Trade name	Chemistry	Property	EPA
LUCROP® BAN	Complex blend	Wetting/spreading, sticking	*
LUCROP® ADA	Blend of renewable polymer and mineral oil	Drift control, sticking	*
LUCROP® HPP	Complex blend	Wetting/spreading, penetration; UAV <sup>‡</sup> approved	*
LUCROP® SURF 1	Fatty alcohol alkoxylate	Wetting/spreading, penetration	*
LUCROP® SW	Silicone based	Super-wetting/spreading, penetration	*
LUCROP® SWEP	Complex blend, silicone containing	Super-wetting/spreading, penetration	*
LUCROP® SWEP L	Complex blend, silicone containing	Wetting/spreading, penetration	*
LUCROP® SPREAD 24	Silicone based	Super-wetting/spreading, penetration	*
LUCROP® ROIL	Complex blend, fatty ester derivative based	Wetting/spreading, enhanced penetration	*

\* EPA can be submitted on request

‡ UAV = unmanned aerial vehicle





For additional information please visit:  
<https://agro-solutions.levaco.com>

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**LEVACO Chemicals GmbH holds following certificates:**

AEO-certificate | Responsible Care | DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015 | DIN EN ISO 50001:2011  
Kosher certificate

