

DEFOAMERS
DISPERSANTS
WAXES
WETTING AGENTS
for Agricultural Applications





Products for seed coatings (suitable for agricultural applications)

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Title 40, Code of Federal Regulations (40 CFR) - Protection of Environment

180.910 - Inert ingredients used pre-and post-harvest; exemptions from the requirement of a tolerance. (Pertains to pesticide formulations applied to growing crops or to raw agricultural commodities after harvest.)

180.920 - Inert ingredients used pre-harvest; exemptions from the requirement of a tolerance. (Pertains to pesticide formulations applied to growing crops.)

180.930 - Inert ingredients applied to animals; exemptions from the requirement of a tolerance (Pertains to pesticide formulations applied to animals)

Non-Food Use -Inert ingredients for use in pesticide formulations applied to non-food crops.

"The contents of this brochure are believed to be correct as of the date prepared based on Münzing's assessment. It is the responsibility of the user to check the full regulations covering their particular application with respect to restrictions. Everything in this brochure, including all information, application and materials, is provided "as is" and without warranties of any kind express or implied. 01/2023"

PRODUCT	FORMULATION TYPE	ADVANTAGES	CONFORMING APPLICATION	USAGE% (starting point, adjust accordingly)
DEFOAMERS				
AGITAN® 299	Blend of non-ionic alkoxyated compounds	<ul style="list-style-type: none"> ▪ Highly effective particle-free defoamer for aqueous systems ▪ Easy to incorporate ▪ Good choice when a 'silicone-free and mineral oil free' defoamer is required. 	40 CFR 180.910 and 180.930	0.05% - 1.0%
DEE FO® SC-11	Silicone compound-based defoamer	<ul style="list-style-type: none"> • Excellent defoaming efficiency and foam knock down • Highly efficient class. Straight silicone compounds in general have the potential to cause wetting defects/compatibility issues so dosages are very low. 		0.01% - 0.1%
DEE FO® SC-76	Blend of organo-modified siloxane and polyoxyalkylene technology	<ul style="list-style-type: none"> • Versatile workhorse with optimal defoaming and wetting • Excellent compatibility with most binders • Low viscosity and easy to handle 	40 CFR 180.910	0.01% - 0.5%
<i>Modification of straight silicones allows this class to overcome the wetting/compatibility issues resulting in optimal defoaming efficiency, persistence and wetting.</i>				
DEE FO® SC-28	3-Dimensional siloxane emulsion	<p>The small droplet size coupled with the low surface tension of the 3D siloxane lends:</p> <ul style="list-style-type: none"> • Superior and persistent defoaming compared to conventional silicones that makes it really suited for high shear applications • Good foam knockdown • Excellent compatibility with minimal or no wetting defects • Suitable for high gloss and clear coatings 	40 CFR 180.920	0.1% - 0.5%
<i>Unlike the linear or branched structures of conventional silicones, the 3D siloxane technology is based on a molecular architecture such that the siloxane molecules are cross-linked to form gel-like microscopic particles. When formulated with a suitable emulsifier package and carrier, the 3D siloxane technology will produce relatively stable, minute droplets in aqueous media.</i>				

PRODUCT	FORMULATION TYPE	ADVANTAGES	CONFORMING APPLICATION	USAGE% (starting point, adjust accordingly)
WETTING AGENTS				
METOLAT® SC-40	Blend of non-ionic surfactants	<ul style="list-style-type: none"> Provides strong reduction in dynamic surface tension Pigment and filler wetting in seed coating and agricultural adjuvants Low foam tendency and APEO free HLB of 12.5 	40 CFR 180.910 and 180.930	0.1-2.0%
METOLAT® 700 METOLAT® 780	Blend of non-ionic surfactants	<ul style="list-style-type: none"> Provides strong reduction in dynamic surface tension Pigment and filler wetting in seed coating and agricultural adjuvants Low foam tendency and APEO free METOLAT® 700 has an of HLB of 12.5 METOLAT® 780 has an HLB of 9.0 		
MICRONIZED WAXES				
CERETAN® MC-6015 (D50 < 6.0 µm and D99 < 15.0 µm)	Spray micronized carnauba wax	<ul style="list-style-type: none"> High slip Good scratch resistance and hardness Useful for direct food application, porous, soft and flexible services 	40 CFR 180.910 and 180.930	1.0% - 3.0%
CERETAN® MXS 3815 (D50 < 5.0 µm and D99 < 15.0 µm)	Spray micronized wax blend, coated with silica	<ul style="list-style-type: none"> Excellent matting effect with high transparency (minimal influence on viscosity) Enhances slip and scratch resistance Good anti-blocking Increases stain and chemical resistance (e.g. to alcohol, vinegar, wine) Gives pleasant haptic feel on the matt finish 	40 CFR 180.910	2%
CERETAN® MX 9820 WD (D50 < 7 µm and D99 < 20 µm)	Spray micronized polyolefin wax, easily dispersible in water	<ul style="list-style-type: none"> Excellent anti-blocking Very good slip Improved scratch and abrasion resistance 		1.0% - 3.0%
<p><i>CERETAN® waxes spherical particle shape are made by unique spray micronization technology that helps improve incorporation, dispersibility and wettability in the dispersion making process. The special manufacturing process gives narrow particle size distribution, makes it more efficient and less dusty than conventional milled waxes.</i></p>				

PRODUCT	FORMULATION TYPE	ADVANTAGES	CONFORMING APPLICATION	USAGE% (starting point, adjust accordingly)
WAX DISPERSIONS				
LUBA-print® SC 5700 (D50 < 0.8 µm and D99 < 1.4 µm)	Fine particle size polyethylene dispersion	<ul style="list-style-type: none"> ▪ Improves slip and mar resistance ▪ Improves anti-blocking ▪ Good rub resistance ▪ Unique' particle size distribution results in superior mechanical properties compared to wax emulsions (allow low dosage levels) ▪ Minimal to moderate impact on gloss 	40 CFR 180.920	0.25%
LUBA-print® WBP 2700	Bio-based Dispersion	<ul style="list-style-type: none"> ▪ >90% Renewable raw materials ▪ >95% Bio-degradable wax ▪ High gloss ▪ Good slip ▪ Good anti-blocking 		
LUBA-print® SC 3520	Polyethylene Dispersion	<ul style="list-style-type: none"> • Improved scratch resistance • Improved flow properties, slip and gloss • Reduce dust 	40 CFR 180.920	3% to 5%
LUBA-print® SC 9825	Polyolefin Dispersion	<ul style="list-style-type: none"> • Improved scratch resistance • Improved flow properties, slip and gloss • Reduce dust 		



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