



# Flexisorb™ OD-P

Zinc ricinoleate

## Overview

- High-Actives solid which is soluble in alcohol and polar organic solvents, and in aqueous surfactant mixtures
- 100% bio-based odor neutralizer that traps and absorbs odors - not a masking agent
- Readily biodegradable
- Pastille form for easy and convenient handling
- Solid form for non-aqueous compounding or formulated products
- Effective in liquid, spray, fogging or mist applications
- Not a bactericide, fungicide or sanitizer
- Compatible with fragrances and most formulating ingredients
- Effectively fixates a wide range of odorous compounds
- Binds with organic waste and decomposition odors
- Captures odors associated with humans, animals, food, chemical processes and smoke
- Effective against smelly acids, amines, mercaptans and thioethers, including hydrogen sulfide and ammonia
- FDA food-contact approved (21 CFR §175.300) for use in the production of resinous and polymeric coatings used as the food-contact surface of articles intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food, in accordance prescribed conditions.
- WERCS ID number 1517092

## Technical Information

Flexisorb OD-P is a water insoluble, solid version of zinc ricinoleate which is provided in an easy and convenient to handle pastille. Flexisorb OD-P is an odor neutralizer...not an antimicrobial or chemical masking agent. More effective than related copper and magnesium salts of the same valence, Flexisorb OD-P zinc ricinoleate forms unique fixating complexes that trap and absorb odor causing substances, and remain stable even if the treated substrate dries.

## Applications

- Bathrooms and shower rooms
- Kitchen and food storage areas
- Automotive, RV and boat
- Waste cans, garbage bags, dumpsters
- Paints and coatings
- Litter and litter boxes
- Sewage plants, landfills
- Stock yards, paper plants

## Formulary

Flexisorb OD-P is a low melting solid which is ideal for compounding. It is soluble in a range of organic solvents and is soluble in aqueous surfactant mixtures.

## Typical Properties

PROPERTY	VALUE
Appearance	Solid, white to tan
Odor	Mild
Ionic character	Anionic
Zinc salt actives	100%
Solubility	Soluble in most organic solvents
Water solubility	Dispersible with surfactants
pH, 1:1 IPA/H <sub>2</sub> O	6-9
Density@25°C	1.00±0.02 g/cc
Melting range	70-80°C
Flash point	Does not ignite below 100°C
Storage	Stable under normal conditions
Shelf life	3 years

## Packaging and Handling

Flexisorb OD-P is available in 50 pound net weight bags

Refer to the Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product

DOT Classification: Non-Regulated

Whether you're looking for a replacement product, or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition; please feel free to contact us.

*Please refer to back page for important information*

## Flexisorb OD-P

### Natural Odor Neutralizer

Flexisorb OD-P is a naturally renewable odor neutralizer that traps and absorbs odors...not an antimicrobial or chemical odor masking agent. Flexisorb OD-P is a complex zinc ricinoleate which is made from purified and naturally renewable ingredients, in a convenient to handle pastille.

### Effective Odor Neutralization

The mechanism for odor fixation by Flexisorb OD-P is complicated, being a combination of adsorption, complex formation, and in some instances a chemical formation such as mercaptans to mercaptides. More effective than related copper and magnesium salts of the same valence, and related organic acids of the same carbon number, Flexisorb OD-P zinc ricinoleate forms unique fixating complexes specific to the odor causing substances that cause intensive odor with low odor thresholds such as low molecular weight organic acids, amines, mercaptans, dialkyl sulfides, dialkyl disulfides,  $\text{NH}_3$ ,  $\text{H}_2\text{S}$  and  $\text{SO}_2$ .

### Range of Application

Flexisorb OD-P traps, absorbs, and fixes odor-intensive organic substances. Substances with low odor thresholds with sulfur- such as thiols and thioethers, or nitrogen-containing functional groups such as ammonia and dimethylamine, and low molecular weight carboxylic acids such as isovaleric acid and hexenoic acid are effectively neutralized by Flexisorb OD-P. Odorous food and animal decomposition products such as putrescine and cadaverine, and industrial by-products such as hydrogen sulfide and sulfur dioxide and others are effectively controlled by Flexisorb OD-P and formulations that contain it.

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