



AGRICULTURE

Calumet solvents, base oils, white mineral oils and waxes are used in various agricultural applications. Whether on the farm or at a nursery, our products help protect trees and crops from insects and disease. They are also used as an inert carrier for insecticides, herbicides, and fungicides as well as seed oil extraction and coatings for seed, fertilizers, grain and animal feed.

Find out more about our specific product uses by reaching out to our Product Support team at technical@clmt.com.

APPLICATIONS

- Inert Ingredients - Carriers and Adjuvants
- Extraction Solvents
- Coatings
- Horticultural Spray Oils
- Finished Lubricants

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this brochure.



INERT INGREDIENTS

Inert ingredients are non-active components in pesticide formulations that do not directly affect the pesticide's action, but contribute to its overall performance. Inert ingredients serve a critical function in how a pesticide works, influencing factors such as enhancing performance, protecting active ingredients from degradation, improving spray coverage, and facilitating application.

■ Carriers and Adjuvants

Calumet manufactures many different products that may be used as pesticide inert ingredients. Our aliphatic solvents can be used as carriers, helping distribute the active ingredient and facilitate its application. Our products can also be used as adjuvants, to help enhance effectiveness, provide better coverage, enhance safety, and provide cost-effectiveness. The usage for these materials is dependent upon CAS number and purity, with limitations for their specific uses listed in the federal regulations.

■ Product Recommendations

- Aliphatic solvents – Act as carriers and adjuvants, enhancing the effectiveness and safety of pesticide formulations. They help dissolve the active ingredients, improve application (preventing caking or foaming), and stabilize the product (extending shelf life), ensuring proper delivery and protection on target plants.
 - DRAKESOL™
- Isoparaffinic solvents – Help dissolve and disperse the active ingredients, making it easier to apply, while also acting as a carrier, stabilizing the active ingredient and facilitating the safe delivery to target area.
 - CONOSOL®
- Petrolatums – Used as inert ingredients for agriculture to enhance the effectiveness and safe application.
- White mineral oils – Used as an adjuvant for crop protection in herbicides, fungicides, and insecticides. Our Drakeol Mineral Oils can also be used to make highly effective adjuvants in animal vaccine. High-quality white oils are essential to produce adjuvants that are safe, effective, stable, easy to use (emulsification and injectability), and economical (reduce antigen dose or concentration).
 - DRAKEOL® mineral oils

Please contact our Product Support team for technical and/or end-use requirements at technical@clmt.com.

EXTRACTION SOLVENTS

In agricultural extraction processes, solvents are employed to isolate valuable compounds from plant materials, like oils, flavors, and bioactive compounds. The selection of a solvent depends on the specific compound being targeted and the chosen extraction technique. Calumet solvents can be used in oilseed extraction processes by washing the oilseed with a hydrocarbon solvent, which is later separated from the oil by evaporation and distillation.

Product Recommendations

- Aliphatic solvents – can be extensively used to extract oils from seeds like soybean, sunflower, and rapeseed. These solvents are effective at dissolving oils while leaving the solid components of the seeds.
 - Calumet HEXANE
 - Calumet HP ISOHEXANE

COATINGS

Calumet's white mineral oils are used for dust suppressants, diluents, binders, and lubricants for use in seed treatments and animal feed. Calumet's white mineral oils meet the Food and Drug Administration Regulation 21 CFR 172.878 to be used safely in food applications such as wheat, corn, soybean, barley, rice, rye, oats and sorghum. Also, our aliphatic solvents and waxes can be used to coat fertilizers to control nutrient release.

Product Recommendations

- White and technical white mineral oils – Drakeol Mineral Oils can be used as an ingredient in animal feed additive and in seed coatings to protect seeds from pests. Drakeol GD-LP can also be used in dust suppression in grain silos, helping reduce dust particles and improve working conditions. It ensures longer shelf life, doesn't penetrate the grain when coated, and it is non-aqueous.
 - DRAKEOL® mineral oils
 - DRAKEOL® GD-LP
 - PAROL®
- Aliphatic solvents – Used as coatings in agriculture for their ability to dissolve and disperse active ingredients.
 - DRAKESOL™
- Waxes – Calumet provides a range of waxes including paraffin, microcrystalline, and customized wax blends that offer advantages for fertilizers and other agricultural needs. Waxes can be engineered to form a long-lasting, water-resistant coating that gradually breaks down over time, allowing for the controlled release of active ingredients. When applied to large surfaces like fertilizers, crops, or other materials, waxes can also help reduce dust and fine particles.
 - PARAFFIN WAX
 - MICROCRYSTALLINE WAX
 - CUSTOMIZED BLENDS



AGRICULTURAL SPRAY OILS

ORCHEX® Agricultural Spray Oils are a proven and safe weapon in combating a broad range of insects and diseases that impact crop production and profitability. Calumet's Orchest Agricultural Spray Oils are for *Manufacturing-Use Only* and may be used by formulators of an end-use product.

■ ASSURED SAFETY

Extensive toxicology testing shows that ORCHEX Agricultural Spray Oils, when used in approved applications, are inherently low in toxicity and present minimal risk to people, animals, crops and beneficial insects.

■ DEPENDABLE QUALITY

ORCHEX Agricultural Spray Oils are registered with the U.S. EPA and are manufactured under the most rigorous quality control standards.

■ DOES NOT PROMOTE RESISTANCE

When used in approved applications, insects cannot develop resistance to this method of pest control. ORCHEX Agricultural Spray Oils are particularly effective in combating scale insects and mites, eliminating them in various life stages by hypoxia or suffocation.

■ OPTIMAL MOLECULAR WEIGHT

Ensures low phytotoxicity to crops while maximizing pesticidal strength. ORCHEX's high paraffinicity ensures low phytotoxicity to crops while maximizing pesticidal strength and insect hypoxia.

■ LOW SURFACE TENSION

Maximizes spreading coverage, while enhancing attachment of pesticide to insect cuticle and plant surfaces.

■ LOW WATER SOLUBILITY

Provides resistance to rain wash-off, extending pesticide longevity and preventing seepage into soil.

ORCHEX 796 APPROVED CROP APPLICATIONS

TREE CROPS, NUT CROPS AND ROW CROPS

| | | | | |
|----------------------|------------|---------------------|--------------------|--------------|
| Almonds | Cherries | Lemons | Oranges - Valencia | |
| Ambersweet Mandarins | Cocoa | Limes | Papaya | Prunes |
| Apples | Coffee | Nectarines | Peaches | Strawberries |
| Apricots | Cotton | Olives | Pears | Walnuts |
| Avocados | Figs | Oranges - Hamlin | Pecans | |
| Bananas | Grapefruit | Oranges - Navel | Pistachios | |
| Bushberries | Grapes | Oranges - Pineapple | Plums | |

ROW CROPS – INERT INGREDIENT CLASSIFICATION

| | | | | | |
|-------|---------|----------|----------|-------------|-------|
| Beans | Cotton | Potatoes | Sorghum | Sugar Beets | Wheat |
| Corn | Peanuts | Rice | Soybeans | Sugar Cane | |

VEGETABLES

| | | | | | |
|-------------|-----------|------------|----------|-------------|------------|
| Beans | Celery | Field Corn | Melons | Pumpkins | Sweet Corn |
| Cabbage | Cucumbers | Hops | Peppers | Squash | Tobacco |
| Cauliflower | Eggplant | Lettuce | Potatoes | Sugar Beets | Tomatoes |

ORNAMENTAL AND SHADE TREES

| | | | |
|----------|------------------|----------|------------|
| Apple | Flowering Cherry | Magnolia | Pyracantha |
| Birch | Flowering Peach | Maple | Sycamore |
| Conifers | Hawthorne | Oak | |
| Dogwood | Holly | | |

PERFORMANCE BRANDS (Finished Lubricants)

Bel-Ray® Specialty Lubricants

To reduce your Total Cost of Ownership:

- **Agriculture focused products**

Engine oils, tractor fluids, gear oils, greases and hydraulic oils are formulated to protect and improve the performance of your agriculture equipment

- **Reduce maintenance and downtime**

Extremely high film strength and consistent film thickness minimize metal to metal contact between moving surfaces resulting in less contact, wear and damage

- **Optimize production**

Expanded drain intervals and usable lubricant life provide optimal operational availability and readiness

- **Extend equipment life**

Formulations focused on proactively managing moisture, heat and contaminants

- **Improve component reliability**

Maximized component mean time between failures and planned maintenance intervals

- **Training and lubrication support program available**

Value-Added Services including training, lubrication program and application analysis, gap analysis, plant audits and inspections are offered to enhance your existing maintenance programs to improve machinery performance and reliability

For more information on Performance Brands products, contact your Account Representative.

Additional Resources

[Penreco® White Oils Animal Health](#)

[Drakeol GD-LP White Mineral Oil Dust Suppression](#)

[Aliphatic and Isoparaffinic Solvents Typical Properties](#)

[Orchex Agricultural Spray Oils](#)

[Drakesol Brochure](#)

[Waxes Brochure](#)

[White Oils Brochure](#)

CALUMET SPECIALTY PRODUCTS & SOLUTIONS

Calumet delivers high-quality products and services to customers around the world. Calumet manufactures, formulates, and markets a diversified slate of specialty branded products and renewable fuels to customers across a broad range of consumer-facing and industrial markets. Headquartered in Indianapolis, Indiana, over 1,600 team members operate at 12 specialty product manufacturing and production facilities across North America. Calumet products are available in more than 90 countries across the world, serving 2,400+ customers globally.



BASE OILS



SPECIALITY OILS



SOLVENTS



ESTERS



WAXES



FUELS & ASPHALTS



PERFORMANCE BRANDS



SUSTAINABLE

TECHNICAL ASSISTANCE

For product or technical questions, contact your Sales Representative or Calumet Product Support at (800) 437-3188 or email technical@calumet.com.

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Calumet's sampling and testing procedures in effect at the time of production will be used for certification testing. Results may be based on tank certification, manufacturing data, periodic testing and/or most recent product restock. Typical values only represent the values one would expect if the property were tested in our laboratories with our test methods on the specified date. Some product properties are not frequently measured, and accordingly typical values are not based on a statistically relevant number of tests. The information in this document relates only to the named product. The user is solely responsible for all determination regarding any use and any process.



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