

# SinewPet™

## A Complete Joint Care & Health Complex

- ✓ **Joint Complex: D-Chondroitin sulfate, MSM, and D-Glucosamine sulfate**
- ✓ **Connective tissue support from Hyaluronic Acid and Hydrolyzed Collagen**
- ✓ **A recovery and structural development formulation**
- ✓ **10 minerals for building stronger bones**
- ✓ **Supports immune health through 15 vitamins**
- ✓ **Reduces stress effects through a B vitamin complex**
- ✓ **Supports healthy energy and stamina levels**
- ✓ **Contains 8 phytonutrients and trace minerals**
- ✓ **For healthy skin, hair, fur and pet's coat**
- ✓ **6 antioxidants that reduce inflammation**
- ✓ **4 enzymes for better digestion and absorption**
- ✓ **Veterinary approved**
- ✓ **Available in both 17.6 oz and 8.8 oz sizes**



**SinewPet™** is the most complete joint care complex developed. It has been formulated to support and maintain the healthy development of bones, muscles, joints, ligaments and tendons. It has five of the best known joint care supplement ingredients: D-chondroitin sulfate, D-glucosamine sulfate, MSM, hyaluronic acid and hydrolyzed collagen. SinewPet™ has antioxidants, vitamins, minerals, phytonutrients and trace minerals to nourish the skin, hair and fur for a healthy and beautiful coat. SinewPet™ also contains four enzymes to aid the digestion and absorption of nutrients, thus supporting the digestive system. SinewPet™ is a powder that can be added or mixed in to your dog's or cat's moist meal. SinewPet™ can also be mixed in with water (1/8 cup) and place directly into your pet's mouth.



Omega Alpha® Guarantee • NON-GMO • Laboratory Tested • GMP • OASIS Product Training

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US-PET013



## A Complete Joint Care and Health Complex + D-Chondroitin, D-Glucosamine, MSM, Hyaluronic Acid & Collagen

**Omega Alpha®'s SinewPet™ contains (per 1 scoop [5 g]):**

**Vitamins:**

beta-Carotene .....	600 mcg (1000 IU)
Vitamin B1 (Thiamine hydrochloride) .....	2 mg
Vitamin B2 (Riboflavin) .....	2 mg
Vitamin B3 (Niacinamide) .....	20 mg
Vitamin B5 (D-Pantothenic acid) .....	5 mg
Vitamin B6 (Pyridoxine hydrochloride) .....	2 mg
Vitamin B7 (Biotin) .....	200 mcg
Vitamin B9 (L-Methylfolate) .....	300 mcg
Vitamin B12 (Cyanocobalamin) .....	100 mcg
Vitamin C (L-Ascorbic acid) .....	100 mg
Vitamin D3 (Cholecalciferol) .....	12.5 mcg (500 IU)
Vitamin E (d-alpha Tocopheryl acetate) .....	16.8 mg AT (25 IU)
Vitamin K2 (Menaquinones) .....	10 mcg
Choline (Choline bitartrate) .....	10 mg
Inositol (Myo-inositol) .....	10 mg
Rutin .....	10 mg

**Minerals:**

Boron (Sodium borate) .....	250 mcg
Calcium (Calcium citrate) .....	50 mg
Chromium (Chromium polynicotinate) .....	100 mcg
Copper (Cupric gluconate) .....	1000 mcg
Magnesium (Magnesium citrate) .....	50 mg
Manganese (Manganese sulphate) .....	2 mg
Molybdenum (Sodium molybdate) .....	100 mcg
Selenium (L-Selenomethionine) .....	10 mcg

Silicon (Sodium metasilicate) .....	1 mg
Zinc (Zinc citrate) .....	1 mg
Minerals are in elemental quantities.	

**Phytonutrients:**

<i>Boswellia serrata</i> (Frankincense Resin) .....	25 mg
<i>Curcuma longa</i> (Turmeric Rhizome) .....	15 mg
<i>Harpagophytum procumbens</i> (Devil's Claw Root) .....	20 mg

**Accessory nutrients:**

<i>Chlorella vulgaris</i> (Chlorella Broken Cell) .....	100 mg
D-Chondroitin sulfate .....	500 mg
D-Glucosamine sulfate .....	1000 mg
Hyaluronic acid .....	50 mg
Hydrolyzed collagen .....	1000 mg
L-Glutamine .....	50 mg
Methylsulfonylmethane (MSM) .....	400 mg

**Enzymes\*\*:**

alpha-Amylase .....	15 mg (330 FCC DU)
Cellulase .....	10 mg (35 FCC CU)
Lipase .....	35 mg (42 FCC LU)
Protease .....	40 mg (720 FCC HUT)

**\*\*Enzymatic Units**

FCC (Food Chemicals Codex)	FCC DU (alpha-Amylase Dextrinizing Units)
FCC CU (Cellulase Units)	FCC HUT (Hemoglobin Unit on a Tyrosine Basis)
	FCC LU (Lipase Units)

**Additional ingredients:**

Apple fiber, Citrus bioflavonoids, Spirulina.



## Get to Know SinewPet™



**Vitamins:**

**beta-Carotene** is a source of vitamin A to help maintain eyesight, skin membranes, and immune functions. It also helps in the development and maintenance of bones and teeth.

**Vitamin B1** enhances energy production, specifically for the brain. Thiamin is intricately involved with other B vitamins in energy metabolism. Magnesium is required in the conversion of thiamin to its active form. Vitamin B1 helps the body to metabolize carbohydrates, proteins and fats and helps normal growth. Vitamin B1 helps boost the immune system and strengthens the body under stressful conditions.

**Vitamin B2** is crucial in the production of energy and is involved in regenerating glutathione (potent antioxidant). It helps the body to metabolize carbohydrates, proteins and fats, as well as helps in tissue formation.

**Vitamin B3** helps the body to metabolize carbohydrates, proteins and fats and assists in normal growth and development. Niacin is a component involved in over 50 different chemical reactions in the body. It plays an important role in energy production, fat and carbohydrate metabolism and the manufacture of sex and adrenal hormones. Vitamin B3 or niacin, has been shown to lower "bad" cholesterol levels (LDL), and boost "good" cholesterol levels (HDL). Vitamin B3 is required for basic bodily functions

such as turning food into usable energy and creating red blood cells.

**Vitamin B5** plays a role in the production of adrenal hormones and red blood cells. Vitamin B5 also helps the body to metabolize carbohydrates, fats and proteins, as well as tissue formation.

**Vitamin B6** helps the body to metabolize carbohydrates, proteins and fats, and it helps in tissue formation. Vitamin B6 helps the body make certain hormones, as well as chemicals in the brain called neurotransmitters. It also helps boost immune system functioning. Vitamin B6 is involved in the formation of protein structures, structural compounds and chemical transmitters. B6 is critical in maintaining hormone balance and immune functions. This vitamin is involved in more than 60 different enzyme processes and in cell multiplication.

**Vitamin B7** supports the manufacture and utilization of fats and amino acids. It is needed for metabolism and body energy systems. It also plays a beneficial role in cell growth and replication. Biotin helps the body to metabolize carbohydrates, fats and proteins.

**Vitamin B9** helps the body to metabolize proteins and form red blood cells. It is also needed for the proper development of the human body. It is involved in producing the genetic material called DNA and is also involved in numerous other bodily functions.

**Vitamin B12** helps the body to metabolize carbohydrates, proteins and fats and it also helps to form red blood cells. Folic acid and Vitamin B12 both work together as methyl donors to facilitate the manufacture of DNA and brain neurotransmitters. Vitamin B12 also works with B6 to reduce homocysteine levels.

**Vitamin D3** functions as a necessary co-factor in calcium absorption and utilization. Vitamin D helps in the development and maintenance of bones and teeth, is a factor in the maintenance of good health and helps in the absorption and use of calcium, phosphorus and trace mineral functions. Vitamin D, being one of the most researched vitamins, has shown to regulate the body's ability to fight against infections and chronic inflammation. It has also been noted to produce over 200 anti-microbial peptides, the most important of which is cathelicidin, a naturally occurring, broad-spectrum antibiotic.

**Vitamin C** helps the body to metabolize fats and proteins, and helps in the development and maintenance of bones, cartilage, teeth and gums. Vitamin C also helps in connective tissue formation and in wound healing.

**Vitamin E** is a source of antioxidants that protects the fat in body tissues from oxidation. It helps to fight against the oxidative effect caused by free radicals and helps to prevent vitamin E deficiency.

**Vitamin K2** is a source of vitamins that helps in normal growth and development and supports biological functions which play a key role in the maintenance of good health. Vitamin K2 contributes to the maintenance of bones and it helps to prevent vitamin K2 deficiency.

**Choline** helps to support liver functions and is a factor in the maintenance of good health. It is involved in fat metabolism and in the transport of fats from the liver.

**Inositol** has lipotropic properties meaning that it promotes the export of fat from the liver. Inositol is a factor in the maintenance of good health and it helps in normal growth and development and supports biological functions.

**Rutin** provides antioxidant support and is used in herbalism as a capillary/blood vessel protectant.

#### **Minerals:**

**Boron** is one of the micronutrients required for optimal health and is involved in maintaining good bone mineralization. Boron is essential for proper assimilation of calcium into the bone matrix, or in simpler terms, makes sure that calcium stays bound to the structure of the bone. Calcium is what gives bone its strength; therefore if your pet becomes deficient in boron, over time, calcium will begin to leach out of the bone and be lost through urination. The result is weakening of the bones, commonly known as osteoporosis.

**Calcium** is known for its role in building strong bones, and keeping the dog's or cat's nails, teeth, and coat healthy. Calcium is required to help maintain healthy calcium metabolism for a number of functions. It is required for digestion, blood clotting, squeezing and relaxing muscles, releasing hormones, and proper nerve function. Calcium helps maintain a regular heartbeat. Calcium is a mineral that must be consumed through diet; it cannot be made inside the body. Over 98% of total body calcium is stored in your pet's bones which works as a mineral bank where calcium is deposited and withdrawn on a daily basis. Calcium is an interdependent mineral that works synergistically with co-factors to deliver its benefits. Calcium and magnesium are primarily responsible for maintaining a healthy bone mineral balance, as well as Vitamin D which is an essential factor in the absorption of calcium and magnesium.

**Chromium** is an essential trace mineral that helps the hormone insulin to function at its full potential. It provides support for healthy glucose metabolism; helps to maintain normal blood glucose level; helps to prevent chromium deficiency; helps to maintain the body's ability to metabolize nutrients; and it may also help to lower cholesterol levels and burns body fat.

**Copper** is a mineral that the body stores mostly in the bones and muscles. It helps to produce and repair connective tissue and helps to form red blood cells. The liver regulates the amount of copper that is in the blood. Copper is also used for improving wound healing and treating arthritis and brittle bones (osteoporosis).

**Magnesium** helps the body to metabolize carbohydrates, proteins and fats. It helps in the development and maintenance of bones and teeth, in tissue formation and it also helps to maintain proper muscle function.

**Manganese** is an essential trace mineral and is primarily known as an enzyme activator. Manganese is involved in activating the enzymes responsible for the production of mucopolysaccharides and glycoproteins which form the organic matrix of bone and cartilage. Manganese is also a part of Mn-superoxide dismutase, which is involved with limiting the buildup of highly reactive oxide molecules in cells. It is a nutrient used in metabolic and biological functions, supports the nervous system functions and normal bone development.

**Molybdenum** helps to prevent molybdenum deficiency and helps to maintain the body's ability to metabolize nutrients.

**Selenium** provides the body with antioxidant support and helps protect it against oxidative stress by fighting and protecting the cells against free radicals. Selenium also helps to maintain normal function of the thyroid gland. Selenium also plays a key role in forming the antioxidant enzyme glutathione peroxidase which helps protect the body from free radical damage.

**Silicon** is a trace mineral that is involved in many enzymatic pathways and metabolic reactions. Silicon works to enhance the re-mineralization of the bone tissue which helps to ensure that calcium and other minerals are deposited onto the bone. It also promotes firmness and strength in the tissues, and helps to maintain healthy hair, nails and/or skin.

**Zinc** helps in connective tissue formation and maintains healthy skin and immune functions. Zinc also helps the body to metabolize carbohydrates, proteins and fats.

#### **Phytonutrients:**

**Frankincense resin** exerts beneficial effects on allergic respiratory ailments, and exerts beneficial effects on various types of inflammatory conditions. *Boswellia serrata* comes from a tree from India and the gummy resin is used. *Boswellia* blocks the synthesis of pro-inflammatory 5-lipoxygenase products, including 5-hydroxyeicosatetraenoic acid (5-HETE) and leukotriene B4 (LTB4). It is known that non-steroidal, anti-inflammatory drugs can cause a disruption of glycosaminoglycan synthesis which can accelerate the articular damage in arthritic conditions.

**Turmeric rhizome** has anti-inflammatory properties that help to reduce the aggravation that occurs with arthritis as it reduces inflammation. It also supports the liver functions and aids the digestive process by increasing bile (supporting the natural elimination processes). It provides antioxidants for the maintenance of good health, relieves pain and inflammation, and assists in healing minor wounds, cuts, burns and minor skin irritations. It has anti-inflammatory and hepatic properties.

**Devil's claw root** contains bioflavonoids and phytosterols, which are plant-based antioxidants with anti-spasmodic properties. Because of its anti-inflammatory properties, it helps to relieve joint pain associated with osteoarthritis. It also helps to stimulate the appetite as the root is used as a bitter tonic to support the digestive system. It has analgesic, anti-inflammatory, anti-rheumatic and sedative properties.

#### **Accessory Nutrients:**

**Chlorella** is single-celled algae and is considered a superfood as it is rich with phytonutrients, including antioxidants, amino acids, chlorophyll, beta-carotene, potassium, phosphorous, biotin, magnesium and the B-complex vitamins. Chlorella's rich, green colour comes from a high concentration of chlorophyll. It has an impressive mix of vitamins, minerals, antioxidants, and phytonutrients and is often used for inflammatory-related conditions, as well as its detoxifying and renewing benefits. Because of its rich source of nutrients, it is used to support the immune functions, wound healing and aids the natural detoxification processes. It also supports cardiovascular health and is considered an "eye health" nutrient, courtesy of its plentiful amounts of beta-carotene and lutein.

**D-Chondroitin sulfate** helps to relieve the pain associated with osteoarthritis of the knee and joints, and also helps to inhibit enzymes that are destructive to the joints. Chondroitin is also a major constituent of cartilage. It draws fluid into the tissue, thus promoting water retention to give the cartilage more elasticity, as well as slowing the break-down by protecting it from destructive enzymes. D-Chondroitin is a more complex molecule than glucosamine, however it is still effective in the repair of cartilaginous tissue.

**Hydrolyzed collagen** is a source of the essential amino acids: histidine, isoleucine, leucine, lysine (helps in collagen formation), methionine, phenylalanine, threonine, and valine; and is a source of the non-essential amino acids: alanine, arginine, aspartic acid, glutamic acid, glycine, proline, serine, tyrosine for the maintenance of good health and is involved in protein synthesis. Hydrolyzed collagen also helps to reduce joint pain associated with osteoarthritis.

**D-Glucosamine sulfate** helps to relieve pain associated with osteoarthritis and osteoarthritis of the knee. It helps to protect against the deterioration of cartilage as it promotes cartilage synthesis. It is a factor in maintaining healthy cartilage and/or joint health. Glucosamine stimulates the production of glycosaminoglycans and proteoglycans. These are essential building blocks of cartilage. Under arthritic conditions, the body's need for glucosamine increases. If the body cannot provide enough glucosamine to meet this increased need, then the joint repair process suffers and the result can be joint and tissue damage. D-glucosamine sulfate is the purest form of glucosamine that is recognized by the body and is best manufactured through enzymatic processes. D-glucosamine sulfate provides the D-isomer form of glucosamine which is 100% utilized/integrated into the body's tissues (tendons, ligaments and sinew).

**Hyaluronic acid** is a glycosaminoglycan, typically a very long chain of disaccharides (sugars) present as a component of all connective tissue. Hyaluronic acid is synthesized naturally in a healthy body and as your pets age, the levels of hyaluronic acid decrease and as a result, your older pet may have aching and stiff joints. Hyaluronic acid helps in connective tissue formation and in the development and maintenance of cartilage. In an inflammatory situation or a disease state, it may help to supplement with a liquid oral hyaluronic acid to support the synovial membranes of the joints. Hyaluronic acid increases the viscosity of the synovial fluid and serves to reduce the

wear-and-tear stress on the articular cartilage and related joint structures. Hyaluronic acid is a gel-like water holding molecule that is the space filler and cushioning agent in all mammals, and it is an important component of joint fluid. It is distributed widely throughout connective, epithelial, neural tissues and intracellular fluids. It is found naturally in the synovial joints, and it owns a key role in musculoskeletal structure as a cushioning and lubricating agent between joint surfaces. It helps to lubricate the joints and has a protective action for the cartilage, as well as anti-inflammatory actions.

**L-Glutamine** is a non-essential amino acid. The body uses glutamine to create proteins, and amino sugars, and to support the production of the super-antioxidant glutathione. The body also uses glutamine to increase water retention in muscle cells, help signaling cell growth and to start intensifying production of protein and glycogen.

**Methylsulfonylmethane (MSM)** is an organic sulfur-containing mineral that is used to improve immune function, reduce inflammation and to help restore healthy body tissue. MSM is also used for pain associated with osteoarthritis, degenerative joint problems and helps form connective tissue and repairs joints, tendons and ligaments. MSM has been well researched and shows that it can decrease joint inflammation, improves flexibility and restores collagen production. MSM is a mineral required in the formation of the extra cellular matrix that is an integral part of cartilage formation and restoration.

#### **Enzymes:**

**alpha-Amylase** is a digestive enzyme and digestive aid that helps decrease bloating after high caloric, high fat meals. Amylase is responsible for digesting carbohydrates.

**Cellulase** is an enzyme that breaks down the cellulose molecule into monosaccharides (simple sugars from plant foods) such as beta-glucose, or shorter polysaccharides and oligosaccharides. The cell walls of plants are made up of cellulose. The role of cellulase in SinewPet™ is to digest the cellulose cell wall thus increasing the quantity of phytonutrients released.

**Lipase** is a digestive enzyme and digestive aid that helps decrease bloating after high caloric, high fat meals. Lipase works to help the body digest fats.

**Protease** is used as a digestive aid and as a digestive enzyme. It helps to digest proteins.

#### **Additional Ingredients:**

**Spirulina** is a microscopic single-celled alga and a complete protein source as it has the highest concentration of protein by weight of any food. Spirulina is vitamin- and mineral-dense, and is rich in enzymes and antioxidants such as superoxide dismutase. It helps to boost normal energy levels in the body and it supports liver metabolism (detoxification). It supports cellular health as it contains an array of nutrients and is considered a perfect protein, which means it contains all of the essential and non-essential amino acids as well (20 amino acids). It is one of the best sources of chlorophyll on the planet and is rich in bioavailable vitamins, minerals, amino acids, essential fatty acids and chlorophyll. It supports joint health by reducing inflammation through its antioxidant properties. Spirulina is also considered to be a blood-building nutrient, primarily due to its polypeptide content (called phycocyanin). Additionally, spirulina is believed to help maintain digestive system health by serving as a food/fuel source for beneficial intestinal flora.

**Apple fiber** promotes healthy intestinal flora, bowel movements and maintains a healthy colon. It provides antioxidants for the maintenance of health, supports cardiovascular health and is used as a bulk forming laxative.