**DESCRIPTION:**

*Nutra-Mend w/ MSM* provides nutrients that aid in the repair of connective tissue and provides nutritional support during the healing and rehab phase of an injury. It also improves muscle and ligament tone, and aids in elasticizing muscles and ligaments. **Nutra-Mend w/ MSM** improves blood flow to the connective tissues and enhances vein and capillary integrity.

**ACTIVES:**

- **Manganese** - is essential in the formation of connective tissue. Manganese gives strength and elasticity to muscles, tendons, ligaments and cartilage. Manganese ascorbate is one of the only type manganese preparations that has the ability to carry other nutrients to feed the tissues and discs of the back area by the process of osmosis.\(^1\) Manganese Sulfate is another special, highly absorbable form of manganese recommended in the Cox program. Sulfate is essential to the synthesis of mucopolysaccharides of the discs, tendons, and ligaments.

- **MSM** - Clinical studies have shown that MSM:
  - Facilitates collagen synthesis, reduces pain and inflammation, increases cell membrane permeability, reduces stiffness and swelling improving joint flexibility, promotes blood flow, helps the healing process, and reduces painful muscle spasms.

  Injured players treated with MSM returned to the playing field up to 75% faster than those not treated with MSM. Beth M. Ley, Ph.D states that vitamin C and other minerals are needed in conjunction with MSM for optimal results.\(^4,7\)

- **Gotu Kola (Centella asiatica)** - Enhanced development of normal connective tissue matrix is perhaps the prime therapeutic action of Gotu Kola. Gotu Kola exerts remarkable wound healing activity. Studies on the mechanism of action of Gotu Kola’s enhancement of wound healing have shown that asiaticoside produced the following effects:
  - Exerts a balancing effect on connective tissue
  - Increases the development and maintenance of blood vessels into connective tissue, strengthening the veins and capillaries.
  - Increases the formation of mucin and structural components such as hyaluronic acid and chondroitin sulfate.

- **Zinc Arginate** - is a patented amino acid chelate from Albion Laboratories, providing all the benefits of both zinc and arginine together in a single highly absorbable molecule.
  - Arginine - promotes wound healing, stimulates the release of human growth hormone increasing protein synthesis and increases blood flow.
  - Zinc - It has been well established that zinc plays an essential role in the process of tissue healing.

**CONTRAINDICATIONS:**

- **Sulfur Sensitivity**

**REFERENCES:**

1. Huan-Chang Chow Tsai and Gladys J. Everson, Dept. of Nutrition, University of California, Davis, California.
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5. The MSM Miracle: Enhance Your Health with Organic Sulfur by Earl L. Mindell, R, Ph.D.
7. *MSM (Methyisulfonylmethane),"* by Stanley W. Jacob, M.D., Total Health, Feb/ Mar 1998

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*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent disease.*