

# Painthol<sup>®</sup>

Muscle rub

**Composition:**

Painthol muscle rub: Each gm muscle rub contains Menthol 25.40 mg, Camphor 14.30 mg, oil of Wintergreen 4.20 mg and Capsicum 0.05 mg.

**Description:**

The fresh or dried fruits of different capsicum species are used medicinally. Capsicum oleoresin is prepared by extracting the crushed capsicum with volatile solvents by percolation method. Preparation made from the oleoresin in cayenne and oleoresin's isolated constituent 'Capsaicin' is used as topical analgesic in OTC (over the counter) market. The herb is indigenous to Mexico and Central America. Methyl salicylate, menthol and camphor are originally derived from plants. Methyl salicylate is derived from oil of wintergreen, menthol is derived from mint and camphor is derived from a number of plants including Peppermint, Eucalyptus and Cedar.

**Pharmacology:**

Capsicum induces selective analgesic effect by depleting substance P, a neuropeptide of 11 amino acids that mediates the transmission and modulation of pain impulses from the peripheral nerves to the spinal column. Capsicum initially stimulates substance P release from peripheral sensory C type nerve fibers, then prevents its reuptake and also blocks its transport within the neuron, which causes its eventual depletion resulting in analgesia. The mode of action of methyl salicylic acid is similar to that of aspirin and shows anesthetic properties by blocking the voltage-operated sodium channels in pain-receptor neurons. The menthol molecule binds and stimulates the TRPM-8 receptor protein that produces a sensation of cold (pain in extreme cases) when stimulated. FDA has approved camphor for topical use as a pain reliever and anesthetic. It acts as counter irritant and numbs the nerve endings that inhibit the transmission of pain sensation.

**Indication:**

Muscle pain, sprains, strains and sports injuries, headache, bruising, fibrositis, neuralgia, pain due to herpes zoster & osteoarthritis.

**Dosage and Administration:**

Adult: Clean the affected area. Apply a small quantity of Painthol muscle rub (an amount equal to the surface area of the tip of a finger) 3 to 4 times daily or as directed by the physician.

Children under 6 years of age: Not to be used.

**Side-effects:**

In rare cases hypersensitivity reaction may occur. Inhalation of medicine may cause bronchoconstriction.

**Contraindication:**

Capsicum preparations are contraindicated for application on injured skin, allergies to aspirin, allergic inflammation of skin, eczema, itchy rash and near the eyes.

**Pregnancy and lactation:**

There is no information available about restriction of this medicine during pregnancy and lactation. May be safely used in pregnancy or breastfeeding providing the benefits to the mother outweigh the risks of fetus.

**Drug interaction:**

None.

**Precaution:**

Avoid use on broken or in inflamed skin, eyes and the mucous membranes. Rinse with cold water if accidental contact occurs. Do not cover immediately after application. Wash your hands thoroughly after application. If itching or irritation occurs, discontinue it.

**Storage:**

Store at a cool, dry place and away from direct sunlight. Keep the medicine out of the reach of children.

**How supplied:**

Each lami tube contains 20 gm Painthol muscle rub.



Manufactured by :  
**KEMIKO PHARMACEUTICALS LTD.**  
Herbal Division  
KEMIKO BANGLADESH

