

Muscle Pain & Stiffness • Swelling from Injuries • Bruising



For centuries, *Arnica montana*, commonly called a Mountain daisy, has been known for its vulnerary action, but the concentrated plant extracts are unsafe for internal use. Highly diluted homeopathic preparations of Arnica montana, however, are considered safe when used as directed.

Helenalin, the plant's main active component, interferes with the regulation of genes coding for many inflammatory mediators at a **very low cytosol concentration**. Swelling and pain from inflammation are therefore reduced. Among other components, polysaccharides stimulate phagocytosis and reduce bruising.

Arnicare® topicals use the homeopathic tincture in concentrations that allow for relief of **local pain**, **swelling and bruising from injuries and surgical trauma**. Arnicare is also used by athletes **to relieve muscle aches from overexertion**.

Thanks to its unique mode of action and variety of preparations, Arnicare is the #1 homeopathic topical analgesic recommended by U.S. pharmacists to reduce muscle and joint pain, swelling and bruising.¹



MEDICINES 2-5

Arnicare topicals (Arnica montana, leopard's bane or mountain tobacco)	Decreases local pain, swelling and bruising associated with injuries or surgical trauma; reduces muscle aches from overexertion	Unscented; presented in different forms (gel, cream or ointment)	Should not be applied to open damaged skin or mucous membranes; do not use if you are allergic to Arnica
Acetaminophen	Analgesic	Well-tolerated; fast-acting	Internal use only; overdosing induces liver toxicity; interacts with other hepatotoxic drugs; use with care in patients with impaired kidney function; may mask other symptoms and delay treatment
Aspirin and salicylates	Analgesic; antipyretic; anti-inflammatory	Effective for mild pain and inflammation; fast-acting	Increases bleeding time; irritates gastric mucosa; risk of Reye's syndrome in children with viral infections
Ibuprofen and other NSAIDs	Analgesic; anti-inflammatory	Relieves pain and inflammation; fast-acting	Produces gastrointestinal disturbances; frequent side effects; interacts with other medications
Capsaicin	Local analgesic by depletion of presynaptic substance P	No counterirritant effect	External use only; stinging or burning feeling may be experienced locally; delayed action
Menthol, camphor, methyl salicylates and other counterirritants	Local analgesics	Long historical use; well-tolerated	External use only; strong medicinal odor; no effect on deep muscles

Pharmacology

Active Compounds

Sesquiterpenes lactones: Esters of helenalin and 11, 13-dihydrohelenalin with short-chain fatty acids

Volatile oils: Thymol, thymol esters, free fatty acids

Polysaccharides with 65% to 100% galacturonic acid; Caffeic acid derivatives: Chlorogenic acid; 1, 5-dicaffeoyl quinic acid Flavonoids: Flavone and flavonol glycosides and their aglycones⁶

Analgesic Effects

Arnica preparations have mild analgesic properties due to the action of helenalin and dihydrohelenalin.6

Anti-Inflammatory Effects

Micro-molecular concentrations (as low as $10^{-20} \mu M$) of helenalin inhibit the activation of transcription factors: NF- κ B (transcription factor nuclear kappa-B) and NF-AT (nuclear factor of activated T-cells). NF-kB is a central mediator of the human immune system that regulates the activation of immunomodulatory genes. These are genes for cell adhesion molecules, immunoreceptors, inflammatory cytokines and enzymes such as cyclooxygenase II and iNO synthase. These proteins are involved in the inflammatory process and play a key role in immune defense. 7-8 The reduction in production of these various mediators of inflammation results in less pain and swelling.

Anti-Ecchymotic Effect

Arnica's polysaccharides display marked phagocytosis enhancement in vivo, which could explain the rapid disappearance of bruising.9

Safety Information

It is important to clearly distinguish the different preparations and concentrations of Arnica with regard to safety. Herbal extracts are concentrated, potentially irritating and unsafe for internal use. Topical forms contain various proportions of herbal extracts and are generally considered safe when used as directed." Boiron Arnicare topicals must not be applied on mucous membranes or open wounds. To relieve pain or reduce bruising affecting large areas, use Arnicare Tablets for systemic action. Homeopathic preparations are highly diluted and are used internally for systemic action without safety issues.3-5

Rare cases of allergy to Arnica extracts have been reported. Typically, a rash appears within two hours, with itchiness and, in rare cases, blisters. Patients with allergic terrain or a known allergy to plants of the daisy family (Compositae) should apply Arnicare on a small area (the size of a quarter) and wait two hours before using the topical on a larger area. The application of ice or a heating pad in the same area where Arnicare has been applied is not recommended.



References used to prepare this document:

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- Available at www.fda.gov/ora/compliance_ref/cpg/cpgdrg/cpg400-400.html. 6. Wichtl M. Arnicae flos. Herbal Drugs and Phytopharmaceuticals. CRC Press, Boca Raton, FL, 1994:54-59.
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- 9. Puhlmann J. Immunological active polysaccharides of Arnica montana cell cultures. Phytochemistry 1991; 30(4):1141-145. 10. Baillargeon L, Drouin J,

Desjardins L, Leroux D, Audet D. The effects of Arnica Montana on blood coagulation. Randomized controlled trial. Le Medecin de Famille Canadien. November 1993.















1.5 oz and 2.6 oz

Drug Facts

Active ingredient

Purpose

Arnica montana.. Trauma, muscle 1X HPUS-7%

pain & stiffness, swelling from injuries, discoloration from bruising

The letters HPUS indicate that this ingredient is officially included in the Homeopathic Pharmacopoeia of the United States.

- temporarily relieves muscle pain and stiffness due to minor injuries, overexertion and falls
- reduces pain, swelling and discoloration from bruises

Warnings

For external use only. Avoid contact with eyes, mucous membranes, damaged skin or wounds. **Do not use if** you are allergic to Arnica montana or to any of this product's inactive ingredients.

When using this product ■ use only as directed ■ do not bandage tightly or use

a heating pad.

Stop use and ask a doctor if condition persists for more than 3 days or . worsens.

Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.

Directions

Apply a thin layer of Arnicare Gel to affected area and massage gently as soon as possible after minor injury. Repeat 3 times a day or as needed.

Other information

- do not use if glued carton end flaps are open or if the tube seal is broken store at 68-77°F (20-25°C)

Inactive ingredients

alcohol, carbomer, purified water, sodium hydroxide

Questions or comments? www.Arnicare.com www.BoironUSA.com info@boiron.com

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ream

1.33 oz and 2.5 oz

Drug Facts

Active ingredient

Purpose

Arnica montana.. Trauma, muscle pain & stiffness, swelling from injuries, discoloration from bruising 1X HPUS-7%

The letters HPUS indicate that this ingredient is officially included in the Homeopathic Pharmacopoeia of the United States.

Uses

■ temporarily relieves muscle pain and stiffness due to minor injuries, overexertion and falls

■ reduces pain, swelling and discoloration from bruises

Warnings

For external use only.
Avoid contact with eyes, mucous membranes, damaged skin or wounds. **Do not use if** you are allergic to Arnica montana or to any of this product's inactive ingredients.

When using this product ■ use only as directed ■ do not bandage tightly or use a heating pad.

Stop use and ask a doctor if condition persists for more than 3 days or . worsens

Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.

Directions

Apply a thin layer of Arnicare Cream to affected area and massage gently as soon as possible after minor injury. Repeat 3 times a day or as needed.

Other information

- do not use if glued carton end flaps are open or if the tube seal is broken ■store at 68-77°F (20-25°C)
- Inactive ingredients

alcohol, caprylyl glycol, carbomer, cetyl palmitate, EDTA disodium, glycerin, lauroyl macrogolglycerides, pegoxol-7 stearate, purified water, sodium hydroxide, sorbic acid, 1,2-hexanediol

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Ointment

Drug Facts

Active ingredient

Purpose

Arnica montana... 1X HPUS-4%

...... Trauma, muscle pain & stiffness, swelling from injuries,

discoloration from bruising The letters HPUS indicate that this ingredient is officially included in the Homeopathic Pharmacopoeia of the United States.

- temporarily relieves muscle pain and stiffness due to minor injuries, overexertion and falls
- reduces pain, swelling and discoloration from bruises

Warnings

For external use only.

Avoid contact with eyes, mucous membranes, damaged skin or wounds. **Do not use if** you are allergic to Arnica montana or to any of this product's inactive ingredients.

When using this product ■ use only as directed ■ do not bandage tightly or use a heating pad.

Stop use and ask a doctor if condition

persists for more than 3 days or . worsens

Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.

Directions

Apply a thin layer of Arnicare Ointment to affected area as soon as possible after minor injury. Repeat 3 times a day or as needed.

Other information

- do not use if glued carton end flaps are open or if the tube seal is broken store at 68-77°F (20-25°C)
- Inactive ingredients

alcohol, purified water, white petrolatum USP-NF

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