BLACKJAK®

100% natural Leonardite Suspension Concentrate from a unique physical process.
High content of Humic and Fulvic Acids with Ulmic acids, Humins.
Acidic pH (4 to 5)

SIPCAM UK

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sofbey

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SIPCAM UK

BLACKJAK is a concentrated aqueous suspension of humic, fulvic and ulmic acids that is suitable for soil (broadcast, band, drip) and foliar application. It can be used alone or mixed with a wide range of plant protection and plant nutrition products. Its naturally acid pH enables growers to also use with acidic fertilizers and is used to reduce the pH in alkaline solutions. It improves the uptake and speed of action of pesticides and foliar fertilizers. As a soil or foliar application it promotes increased root development, improved nutrient uptake & greater photosynthesis efficiency & cell membrane protection. It provides support to plant hormone metabolism leading to more balanced growth. BLACKJAK is successfully used on tree crops (pome and stone fruit) and on vegetables (both under glass/plastic and also open field), cereal crops, grapevines, potatoes, onions, maize, sugar beets, sunflowers, strawberries. Humic acids are natural chelating agents so soil applications of BLACKJAK help to release blocked macro and micro elements. When used in heavy clay soils BLACKJAK will help break the clay bonds thus making the soil lighter and at the same time increasing the microbial activity, air and water circulation and retention.

DOSAGE AND RECOMMENDATIONS

CROP	SOIL	FOLIAR
Cereals	Broadcast application: 3-4 l/ha before sowing.	1.5-2 l/ha at tillering (GS 21) and again at stem elongation (GS 30-37)
Oilseed Rape	Broadcast application: 3-4 l/ha before sowing.	1.5-2 l/ha at GS 14-16 and again at stem extension (GS 30-39)
Sugar beet, Beetroot, Fodder beet	Broadcast: 3-4 l/ha pre or after sowing. Band application in furrow: 2 l/ha at sowing.	2 l/ha at 8-10 leaves and 2 l/ha before ground cover
Maize	Broadcast: 3-4 l/ha pre or after sowing. Band application in furrow: 2 l/ha at sowing.	1.5-2 l/ha at V4-V6 (4-6 leaves) also in combination with post-emergence herbicides
Grassland	Broadcast application: 3-4 l/ha before sowing.	1.5-2 l/ha at early vegetative growth in spring and after first cut
Potatoes	Band application in soil at planting: 2 l/ha. Broadcast: 3-4 l/ha pre or after sowing.	1.5-2 l/ha at tuber initiation and at tuber bulking
Carrots, Onions	Band application in soil at planting: 2 l/ha. Broadcast: 3-4 l/ha pre or after sowing.	1.5-2 l/ha at 10 cm height and 2-3 weeks later
Vegetables (open air)	Broadcast: 3-4 l/ha before transplant. In furrow application: 0.2-0.3% with transplant water.	1.5-2 l/ha 10 days after transplant and other 1-2 treatments at 2 weeks interval
Vegetables (greenhouse)	In furrow application: 0.2-0.3% with transplant water. Drip irrigation application: 300-400 ml/1000 m^2. After transplant Drip irrigation application: 100-150 ml/1000 m^2 10 days after transplant and other 5-8 applications every 2 weeks.	Foliar application: 1.5-2 l/ha 10 days after transplant and other 5-8 applications every 2 weeks
Vineyards and orchards (pome fruits, stone fruits)	Broadcast application: 5-10 l/ha at early sprouting. Drip irrigation application: 5-10 l/ha at early sprouting (total volume can be split over 2-3 applications).	2-3 l/ha at early vegetative growth and 3 weeks later

OTHER APPLICATION

1. In combination with iron chelates (EDDHA 6% Iron): 250 ml BLACKJAK + 125 g EDDHA 6% Iron chelate per 1000 m^2 (applied via drip irrigation) normally results in quicker uptake of the chelate and faster curing of the iron chlorosis.
2. Applied via drip irrigation: *Vegetables*: immediately after planting and then every 3-4 weeks at 300-500 ml/1000 m^2.
Field crops (maize, cereals, etc.): 2,5 l/ha repeated 5-6 times during growing season.
3. Mixed with foliar fertilizers: BLACKJAK at 50 ml/100 l water.
4. As buffer in spray tank to reduce pH: BLACKJAK at 50 ml/100 l water.

MIXING Fill the spray tank half full with water. Add BLACKJAK at the recommended rate, as well as the leaf fertilizers and the plant protection products to be used. Agitate the solution when topping up the tank with water and then spray.
STORAGE Keep BLACKJAK in the original container. Do not store below 0° C or above 40° C. When stored under normal storage conditions the product will keep its physical, chemical and biological properties for at least 3 years.
COMPOSITION Organic matter: 28% minimum. Humic/fulvic/ulmic acids: 20% minimum. **pH: 4-5**