

BLACKJAK® SC – PROPERTIES AND MODE OF ACTION

BLACKJAK® SC is manufactured from Leonardite, a fossil raw material, and contains humic acid and fulvic acid, as well as ulmic acid which is not readily soluble. BLACKJAK® SC is a suspension with an acid pH value of 4-5.

BLACKJAK® SC activates the soil life and the conversion of stable humus into friable humus, thus improving the availability of humus and the soil structure. Compacted soil which has been silted up by rain regenerates more quickly.

Through the constant removal of organic matter from the cultivated area in the form of straw and harvested crops, the amount of organic matter in the soil continually decreases. BLACKJAK® SC activates the soil life where the soil has become increasingly nutrient deficient, thus balancing humus removal and improving the availability of humus. The availability of nutrients to plants is thereby increased.

BLACKJAK® SC makes the essential use of sulphonylurea herbicides and “harsh azoles” more compatible with maize and cereals. Through its softening action, BLACKJAK® SC reduces undesirable bleaching resulting, for example, from the use of maize herbicides.

Intolerances resulting from the use of herbicides and fungicides arise particularly during drought stress, cold nights and conditions that hinder root formation. The addition of BLACKJAK® SC reduces these intolerances and ensures that maize stocks and other crops grow through stress-free, even under unfavourable conditions.

BLACKJAK® SC stimulates the production of plants' own enzymes, promotes saccharification and amylogenesis, and strengthens plant resistance.

BLACKJAK® SC in maize (6 tests 2009/2010)			
	Control	BLACKJAK® SC	%
Fresh mass (dt/ha)	520.2	556.6	107.0
Dry matter (%)	34.0	35.3	103.8
Dry mass (dt/ha)	176.8	196.3	111.0
MJ NEL / kg of dry matter	6.6	6.7	101.5
MJ NEL / ha	116,131	131,920	113.6
Starch (g/kg of dry matter)	324.0	356.0	109.9
Starch (kg/ha)	5,727	6,988	122.0
Economic perspective from the point of view of dairy farmers			
Increased efficiency (MJ NEL / ha)		15,789	
Increased efficiency (€/ha) (Value 10 MJ NEL = €0.23)		€363.14 / ha	
Economic perspective from the point of view of biogas plant operators			
Increased efficiency – starch (kg/ha)		1,261	
Increased efficiency – dry mass (dt/ha)		20	
Increased efficiency (€/ha) (Value €7.00 – €7.50 / dt)		€140 – €150 / ha	
Dose of BLACKJAK® SC			
3 l/ha for weed control and splitting with 2 l/ha for weed control and 1 l/ha for EC 14-17			