

JESMOND

BIO KILL[®] EXTRA GT ***INFORMATION DATA SHEET***

GENERAL CHARACTERISTICS

BIO KILL[®] Extra GT, a fast acting insecticide with a remarkable residual activity, is based on two different active ingredients: Prallethrin as an EW emulsion oil in water which is the knock-down effect active ingredient with basically no toxicity and Lambda-cyhalothrin (LC) in a microencapsulated form (CS).

The microcapsules firmly hold the Lambda-cyhalothrin until it is sprayed onto a surface. Upon drying, the pores of the microcapsules slowly open up and the content diffuses onto the surface releasing the required killing amount of the LC constantly over a period of 6 weeks, even in difficult areas, outdoors and less hygienic circumstances (e. g. wet and humid areas, cellar).

Due to this new technology, *BIO KILL[®] Extra GT* ready-to-use does not pollute the environment dramatically as once it does not release enough active ingredient any longer it stops the activity immediately.

BIO KILL[®] Extra GT ready-to-use is tested and shows full (100%) residual efficacy after 4 weeks. (Table 1).

EFFICACY

	<i>Application Rates</i>	<i>1 day</i>	<i>2 weeks</i>	<i>4 weeks</i>
<i>Carpet</i>	100ml/m ²	100	100	100% kill
<i>Concrete</i>	100ml/m ²	100	100	100% kill
<i>Wood</i>	100ml/m ²	100	100	100% kill
<i>Ceramic</i>	50ml/m ²	100	100	100% kill

Table 1: Residual activity after 1 day, 2 and 4 weeks over a 72h experimental period in *Musca domestica*

ACUTE TOXICITY DATA

	<i>BKE GT Concentrate</i>	<i>BKE GT RTU</i>	<i>Animals</i>
<i>Oral LD50</i>	300 – 2000 mg/kg	> 5000 mg/kg	rats
<i>Dermal LD50</i>	> 2000 mg/kg	> 5000 mg/kg	rats
<i>Inhalation LC50</i>	> 2,5 mg/m ³ (4h)	> 5000 mg/m ³ (4h)	rats
<i>Eye irritation</i>	non irritant	non irritant	rabbits
<i>Skin irritation</i>	non irritant	non irritant	guinea pigs

Table 2: Acute Toxicity Data – Comparison BKE GT Concentrate to BKE GT RTU

An additional safety is guaranteed by Xanthan Gum in the RTU formulation which acts as a stabilizer and produces a film upon application that protects the capsules to release too fast and to minimize the contact and to improve the droplet size making the product much safer.

Human Exposure

Long-term use without special security or safety measures has not revealed any inhalation or skin effects, nor other adverse effects in applicators.