

Table 3. Some Physico-chemical properties of the tested chlorpyrifos-ethyl EC formulations according to (CIPAC standards)

Tests (Parameters)	Time	Chlorfan 48% EC	Chlorzan 48% EC	Pestiban 48%EC	Pyrifos – El-Nasr 48% EC	Pyriban -A 48% EC	Tafaban 48% EC	Maximum Limit
Persistence foam	1min	12.0 (+)	20.0 (+)	12.0 (+)	20.0 (+)	10.0 (+)	14.0 (+)	25 ml after 1 minute
Emulsion Stability	0 h	CE (+)	CE (+)	CE (+)	CE (+)	CE (+)	CE (+)	Initial emulsification complete.
	0.5 h	MC 1.8 ml (+)	MC 0.5 ml (+)	MC 0.9 ml (+)	MC 0.9 ml (+)	MC 0.9 ml (+)	MC 1.2 ml (+)	"cream" maximum : 2ml
	2.0 h	MC 5.8 ml (-)	MC 2.6 ml (-)	MC 5.5 ml (-)	MC 6.0 ml (-)	MC 6.5 ml (-)	MC 7.5 ml (-)	"cream" maximum : 2ml
Free Oil	2.0 h	0.5 ml (-)	0.5 ml (-)	Trace (+)	0.3 (-)	0.7 ml (-)	0.4 (-)	"oil" maximum : trace
	24 h	CE (+)	CE (+)	CE (+)	CE (+)	CE (+)	CE (+)	Re- emulsification complete.
Re –Emulsification	24.5h	MC 9.6 ml (-)	MC 7.0 ml (-)	MC 9.0 ml (-)	MC 9.2ml (-)	MC 10.0 ml (-)	MC 8.6 ml (-)	"cream" maximum : 2ml
Free oil	24.5h	1.4 ml (-)	24.5 ml (-)	0.6 ml (-)	1.2 ml (-)	1.5 ml (-)	0.9 ml (-)	"oil" maximum : trace

CE: Complete emulsification, M C: Maximum Cream, (+) means Valid, (-) means Not Valid,

Where: Valid means (Tested value < maximum limit).

Not valid means (Tested value > maximum limit) · Note: tests after 24 h are required only where the results at 2 h are in doubt

Table 4. Some Physico-chemical properties of the tested organophosphorus and pyrethroid EC formulations

Tests (Parameters)	Times	Agrothion 57% EC (ML)	Diazinox 60%EC (ML)	Fly Free 5% EC (ML)	Malason Extra 57% EC (ML)	Pyrodan 50% EC (ML)	Sumithion 50%EC (ML)	Sylian 72%EC (ML)	Teleton 72%EC (ML)
Persistence foam	1min	12 ml (+) (25ml)	18 ml (+) (25ml)	7 ml (+) (15ml)	15 ml (+) (25ml)	11 ml (+) (25ml)	8 ml (+) (18ml)	25 ml (+) (30 ml)	20 ml (+) (30 ml)
	0 h	CE (+) (IE C)	CE (+) (IE C)	CE (+) (IE C)	CE (+) (IE C)	CE (+) (IE C)	CE (+) (IE C)	CE (+) (IE C)	CE (+) (IE C)
Emulsion Stability	0.5 h	MC 1.5 ml (+) (2ml)	MC 2.5 ml (-) (1ml)	MC 0.6 ml (+) (1ml)	MC 1.1 ml (+) (2ml)	MC 1.7 ml (+) (2ml)	MC 1.5 ml (-) (0.5ml)	MC 2.9 ml (+) (Minimum 70 %)	MC 1.7 ml (+) (Minimum 70 %)
	2.0 h	MC 5.3 ml (-) (4ml)	MC 5 ml (-) (1ml)	MC 1.8 ml (+) (2ml)	MC 5.5 ml (-) (4ml)	MC 3.5 ml (+) (4ml)	MC 3.0 ml (-) (1ml)	MC 7.3 ml (-) (Minimum 50 %)	MC 7 ml (-) (Minimum 50 %)
Free Oil	2.0 h	0.7 ml (-) (0.5 ml)	1.4 ml (-) (Nil)	0.2 ml (-) (Trace)	0.6 ml (-) (0.5 ml)	0.5 ml (-) (Trace)	0.9 ml (-) (0.5ml)	1.0 ml (-) (Trace)	1.2 ml (-) (Trace)
	24 h	CE (+) (CRE)	CE (+) (CRE)	CE (+) (CRE)	CE (+) (CRE)	CE (+) (CRE)	CE (+) (CRE)	CE (+) (CRE)	CE (+) (CRE)
Re- Emulsification	24.5h	MC 9.2ml (-) (4 ml)	MC 8.0 ml (-) (4 ml)	MC 9 ml (-) (2 ml)	MC 9 ml (-) (4 ml)	MC 8.6 ml (-) (4 ml)	MC 5.5 ml (-) (0.5ml)	MC 9.5ml (-) (Minimum 50%)	MC 8.1 ml (-) (Minimum 50%)
Free oil	24.5h	3.7 ml (-) (Trace)	2.2 ml (-) (2ml)	1.5 ml (-) (Trace)	3.9 ml (-) (0.5ml)	2.9 ml (-) (Trace)	1.7 ml (-) (Trace)	1.6 ml (-) (Trace)	2.0 ml (-) (Trace)

ML: Maximum Limit, CE: Complete Emulsification, MC : Maximum Cream, IEC: Initial Emulsification Complete, CRE: Complete Re-Emulsification.

(+) means Valid · (-) means Not Valid, Where: Valid means (Tested value < maximum limit).

Not valid means (Tested value > maximum limit) · Note: tests after 24 h are required only where the results at 2 h are in doubt