

**PRODUCTS FOR
AGROCHEMICAL
INDUSTRY**



STERLING ORGANICS

&

CHEMICALS

Sterling Organics & Chemicals is supplying substantial quantities of nonionic ,anionic and their blend to a growing number of users who employ them as ingredients in their pesticide formulations as emulsifier formulation as emulsifiers,wetting,dispersing and spreading agents. Our customers in many segments of the process industries realize the four positive advantages:

- (A) Sterling Organics & Chemicals surface active raw materials are available in any quantity.
- (B) Products meet their rigid specifications.
- (C) Sterling Organics & Chemicals prices are competitive.
- (D) The products are readily tailored to their specific needs.For insecticides,pesticides we have developed a pair of emulsifiers which when used in a proper proportion works well for almost all insecticides,pesticides,herbicides,etc. the products described below are used mostly for the emulsifiable concentrates mentioned overleaf.The percentages of emulsifiers described for a particular solvent-pesticide system may vary on changing the solvent system. Our daily experience proves to us,that our knowledge of emulsifiers or our knowledge of diverse customer needs-each taken separately is not enough.Rather it is the combination of both of these factors,which greatly increases our ability to be of service to our customers.Experience which we gain through the solution of specific problems helps us to solve similar problems that may occur in other processes. In those cases when an'off the shelf' solution to a customer's inquiry is not feasible,we willingly undertake the role of problem solvers.

	SOC EMULSOL KP 66	SOC EMULSOL MAL	SOC EMULSOL EPN	SOC EMULSOL X-152 H	SOC EMULSOL X-172 H
COMPOSITION	Blend of Polyglycol ethers and anionics	Blend of anionics and nonionics	Blend of anionics and nonionics	Blend of anionics and nonionics	Nonionics
APPEARANCE	Dark Brown Viscous Liquid	Dark Brown Liquid	Amber Liquid	Dark Brown Liquid	Amber Liquid
ph of AQU. SOLN.	5.8 to 7.5	6 to 7.5	6 to 7	5.5 to 7.5	5.5 to 8
SOLUBILITY	Sol. In water and in Xylene,Toluene,Aromex,lomex	Sol. In water aromatic and chlorinated solvents.	Sol. In water aromatic and chlorinated solvents.	Sol. In aromatic solvents	Sol. In water and aromatic solvents.
MOISTURE %	0.5	0.5	0.5	0.5	0.5

The above characterized products are especially developed for top performance in a broad range of peasticide formulation and to give excellent stable emulsions,to practically all of the major toxicants ansd solvents,in water ranging from 40 to 500 ppm CaCo3 hardness.



STERLING ORGANICS & CHEMICALS

EMULSIFIERS

S. No.	Product	% Emulsifier to be used generally recommended	% Emulsifier OF SOC Used		Temp. at which cold test to be taken	Method to be adopted for emulsion stability test	H e a t s t o r a g e t e m p	Quan tity to be taken for emuls ion stabili ty test	Stability time in hours		Heat Stor age Peri ods
			SOC EMULS OL X-152 H	SOC EMUL SOL X-172 H					O/ W	W/ O	
1	DIAZINON 20% E.C	3-4	3	-	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days
2	DDT 25% E.C.	2-3	2.5	-	5°C	I.S.I O/W W/O	50°C	5.0 ml	1½	1½	7 days
3	ENDRIN 20% E.C.	2-3	2.5	-	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days
4	MALATHION 50% E.C.	3-5	2.668	1.332	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days
5	LINDANE 20% E.C.	3-4	3.182	0.318	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days
6	TOXAPHENE E.C.	8-10	6.250	2.250	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days
7	TOXAPHENE+D DT E.C.	8-10	5.450	3.050	5°C	I.S.I O/W	50°C	2.0 ml	1½	1½	7 days

						W/O						
8	SUMITHIONSTABILISED 50% E.C.	8-15	6.250	3.750	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
9	FENITROTHION 50% E.C.	8-15	6.250	3.750	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
10	ROGOR E.C.	5-10	-	9.000	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
11	5% DIAZINON+25% DDT E.C.	3-5	3.000	-	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days	
12	CHLORDANE 20% E.C.	2-5	2.5	-	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days	
13	ENDRIN COMBINATION CONCENTRATE	10-15	5.000	5.000	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days	
14	THIOMETON 35% E.C.	10-15	5.000	5.000	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
15	ENDOSULFAN 35% E.C.	5-7	4.000	2.000	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
16	NEMAGON 60% E.C.	10-15	7.500	2.500	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
17	ANTIO 25% E.C.	12	6.000	6.000	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
18	ETHYL PARATHION COMBINATION	10	7.500	2.500	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days	
19	QUINOLPHOS E.C.	12	6.000	6.000	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
20	METHYL PARATHION E.C.	5-8	4.666	2.334	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
21	ETHYL PARATHION 50% E.C.	10-15	8.000	2.500	5°C	I.S.I O/W W/O	50°C	1.0 ml	1½	1½	7 days	
22	PHOSALONE E.C.	10-15	8.500	2.000	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days	
23	DICOFOL E.C.	5	2.500	2.500	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days	
24	STAM 39% E.C	26	20.000	6.000	5°C	I.S.I	50°C	5.0 ml	1½	1½	7	

						O/W W/O					days
25	MALATHION 80% E.C.	20	13.000	7.000	5°C	I.S.I O/W W/O	50°C	1.5 ml	1½	1½	7 days
26	ETHYL PARATHON(Wit hout solvent)	30	20.000	10.00 0	5°C	I.S.I O/W W/O	50°C	0.6 ml	1½	1½	7 days
27	TRITHION 30% E.C.	3-5	3.000	2.000	5°C	I.S.I O/W W/O	50°C	2.0 ml	1½	1½	7 days
28	METHOXYCHLO R 20% E.C.	3-5	3.2	0.800	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days
29	ALDRIN 20% E.C.	2-2.5	2.5	-	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days
30	HEPTACHLOR 20% E.C.	3-5	3.2	0.800	5°C	I.S.I O/W W/O	50°C	2.5 ml	1½	1½	7 days

In many cases as little as 2 to 3% of these emulsifiers show excellent exceptional spontaneity of emulsification and slow rates of creaming. This combination of versatility spontaneity and stability in the emulsions make these 'EMULSIONS' the most outstanding pesticide emulsifiers on the market. Even when a new toxicant system is to be considered which may not be included in the list, one of the above or a blend of them will definitely serve the purpose. The above recommended percentage of Emulsols produce emulsions, which are stable in hard water of 340 ppm, and even in 500 ppm, for more than an hour with almost no sedimentation or creaming. The emulsion of the concentrate on pouring into water is thick, milky and passes all pesticide formulation standards. The emulsifiers are clearly soluble in the concentrates with excellent storage stability hot and cold. The emulsifiers are nontoxic and the constituents do not react in any way with the active pesticide ingredients.

Besides the few pesticides mentioned in the above table we have also worked out most suitable and excellent emulsifier blends for pesticides such as Heptachlor, Pyrethrum, 2,4 D.D.V.P., Weedicides, Nematocides etc. We can undertake the work of making tailor-made emulsifier for specific formulations.

WATER DISPERSABLE POWDERS

The following products are used for preparing water dispersible powders:

S.No.	Product Name	pH of water solution	Form	Application	Recommended for
1	SOC POWDER	7-7.5	Powder	Wetting, dispersing, suspending	DDT, BHC, Sevin, 2 to 3% for 50% dispersible formulation
2	SOC BX	6.8 to 7.5	Powder	Wetting, dispersing, suspending	DDT, BHC, Sevin, 2 to 3%
3	SOC S-70	6.5 to 8	Powder	Dispersing agent	Sevin, Copper

					oxychloride. Use 3%. Also for Aldrin, Dieldrin, Endrin
4	SOC UDA PDR.	6.5	Powder	Dispersing, wetting agent	Use 3% for 50% dispersible powder
5	SOC NP 27	5.5 to 7	Liquid	Wetting agent	Use 1% to 2% BHC, DDT, Chlordane
6	SOC KP 66	5.5 to 7	Liquid	Wetting agent	Use 2% to 3% IMC, Malathion
7	SOC X-100	6 to 7	Liquid	Wetting agent	Use 1% to 2% DDT, Heptachlor

Whatever your needs or interest in surface active chemicals we invite your inquiry. We are prepared to furnish samples that you may require for evaluation and testing, and will welcome the opportunity to work on your specific pesticide formulation.

We exercise close control over our raw materials and employ most modern production and material handling techniques, to assure uniform quality of end product. Sterling Organics & Chemicals's policy has been, and will continue to be, one of the controlled expansion. Although we are naturally gratified by the pattern of consistent growth made possible by our ever-enlarging body of satisfied customers, we intend to continue putting personal service before "bigness". In short, we hope always to be big enough to do the best job for our customers.

This leaflet and other technical information are for our guidance only; all the data contained therein are given without guarantee.