

Surfactant for Pesticide Formulation.

Basic Guide for Various Pesticide Formulation

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Preface.

In 1975, from my university day, Professor Kanno gave me great help to study and it was joyful start for me to do working in surfactant industry field. During my working days, company gave me good chance to study surfactant synthesis, analysis, and pesticide formulation study. Actually I had very good experience through my working days. In this paper I am trying to summarize my experience about surfactant which mainly used in Pesticide industry, also about Pesticide formulation. It is not to describe theory of surfactant chemistry, nor detail of Pesticide formulation production. To describe such as theory of surfactant chemistry, production detail is beyond my ability. But, Formulation study is very much complicated, it need knowledge about surfactant, but also it need additional knowledge for different field, formulation study is actually interdisciplinary study. This is because, maybe someone need help to start formulation study. This paper is just my technical summary of working days, but if it will be some help for young formulation chemist who start formulation study, I will be very happy. Also for all my past days, my family gave me continuous help to carry out my job, I sincerely thanks for them.

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Surfactant for Pesticide Formulation.

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2-1-6. Surfactant performance and Environment.

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3-2-1. Normal nonionic surfactant

3-2-2. Poly Glycerylether type nonionic surfactant

3-3. Cationic Surfactant

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4-1-1. General Analysis

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4-1-3. Other Chemical Analysis

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