SiSiB® ASS8806

Agricultural Silicone Surfactant

Component

Polyalkyleneoxide modified heptamethyltrisiloxane

Introduction

Agricultural Silicone Synergistic Agent SiSiB® ASS8806 is a modified Trisiloxane, and is an organic silicone surfactant with super ability of spreading. It makes the water surface tension lower down to the 22.0 mN/m at the concentration of 0.1 %(wt.). After the mixture with the pesticide solution at the certain proportion, it can lower the contact angel between the spray and foliage, which can enlarge the coverage of the spray. Furthermore, SiSiB® ASS8806 Agricultural Silicone Spreading and Penetrating Agent can make the pesticide absorbed through the stomatal of leaves, which is extremely effective for improving efficacy, reducing amount of pesticide, saving cost, reducing environmental pollution caused by pesticides.

Features

Agricultural Silicone Spreading and Penetrating Agent SiSiB® ASS8806 has super spreading and penetrating property, high-efficient systemic and conduction property, and tolerance property of rainfall.

Typical Physical Properties

CAS No.	134180-76-0
Color and Appearance	Colorless to light amber liquid
Flash Point	112°C
Surface Tension (0.1%)	21.0-22.0 mN/m
Density $_{25/25°C}$	1.01-1.03
Cloud Point:	<10°C
Viscosity(25°C)	25-45 cPs

Applications

Agricultural Silicone Synergistic Agent SiSiB® ASS8806 can add to the biological pesticide spray mixture liquid such as pesticide, bactericide, herbicide, foliar fertilizer,

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plant growth regulator, etc, especially applied for systemic pharmacy.

How to use

(1) As A Tank Mix Adjuvant

SiSiB® ASS8806 is used to improve spray coverage, improve uptake or to reduce spray volume. It is the most effective as a tank-side adjuvant when spray mixtures are (i) within a PH range of 6-8,and (ii) prepare the spray mixture for immediately use or within 24h preparation.

SiSiB® ASS8806 achieves full performance at very low use-levels, often 0.1 to 0.5% will be sufficient. Once the full performance of SiSiB® ASS8806 has been reached, a further increase in the silicone surfactant concentration will show no effect. We recommend testing first at a concentration of 1% and afterwards lowering the SiSiB® ASS8806 concentration to the point at that still full performance is achieved. In general, the amount is as follows:

Plant promote regulator:	0.025%-0.05%
Herbicide:	0.025%-0.15%
Pesticide:	0.025%-0.1%
Bactericide:	0.015%-0.05%
Fertilizer and trace element:	0.015%-0.1%

When using, dissolve the pesticide first, add SiSiB® ASS8806 after the uniform mixture of 80% water, then add water to 100% and mix them uniformly. It is advised that when using Agricultural Silicone Spreading and Penetrating Agent, the water amount reduced to 1/2 of the normal (suggested) or 2/3, average pesticide usage reduced to 70-80% of the normal. Using the small aperture nozzle will quicken the spray speed.

(2) In Agrochemical Formulations

When the product added to the original pesticide, we suggest the amount is 0.5%-8% of the original pesticide. Adjust the PH value of the pesticide prescription to 6-8. If the liquid mixtures is PH=5-6 or PH=8-9, the surface activity lows down obviously after being laid aside for 24h. Although silicone surfactants are subject to hydrolysis under acidic or basic conditions, optimum performance is achieved by buffering the formulation to PH 6.5-7.5.

The user should adjust the amount of Agricultural Silicone Synergistic Agent SiSiB® ASS8806 according to different kinds of pesticide and prescription to reach the most effective and most economical result. Do compatibility tests and stepwise tests before

usage.

Packing and Storage

SiSiB® ASS8806 is supplied in 25Kg drum, 200Kg steel drum.

In the unopened original container SiSiB® ASS8806 has a shelf life of 2 years in a dry and cool place.

Notes

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: support@SiSiB.com.