

ASTRA F 1309

Functional additive

Description

Agricultural wetting penetrant ASTRA F 1309 is a low molecular weight silicone polyether nonionic surfactant. It is used to improve the wettability, dispersion and permeability of pesticides. It is used to enhance the performance of pesticides, especially water-soluble broad-leaved herbicides, insecticides, fungicides and plant growth regulators.

The agricultural wetting penetrant ASTRA F 1309 can reduce the surface tension of water to 20.5 mn/m at the concentration of 0.01% (wt.). After mixing with pesticide solution in a certain proportion, it can reduce the contact angle between spray liquid and leaf surface, thus increasing the coverage of spray and accelerating the absorption of pesticide. It is very effective to improve the efficacy, reduce the dosage of pesticides, save costs and reduce the pollution of pesticides to the environment.

Physical and Chemical properties

Appearance:	Colorless to light amber liquid
Surface tension (25 °C):	20.8 ± 0.5 mn/m
Density:	1.01-1.03 g/cm ³
Viscosity (25 °C):	25-45 mm ² /s
Cloud point (0.1%wt%):	<10

Specialty

Agricultural wetting penetrant ASTRA F 1309 has super spreading and permeability, high-efficiency internal absorption, conductivity and rain erosion resistance. It can greatly reduce the surface tension of water, quickly wet the surface of plant leaves and insects, and promote the rapid expansion, penetration, absorption, water saving and efficiency increasing, and save money and effort of effective ingredients. It is used as an additive for foliar spray of pesticides, fungicides, herbicides, plant growth regulators, foliar fertilizers, biological pesticides and other agricultural chemicals. It has strong penetration and rain erosion resistance, saving 30% -50% of pesticide consumption.

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Application System and Dosage

Agricultural wetting penetrant ASTRA F 1309 can be added to the spray mixture of biological pesticides such as insecticides, fungicides, herbicides, foliar fertilizers, plant growth regulators, etc., and is especially suitable for internal inhalation agents.

1. Barrel mixed spray

Generally, 5g of agricultural wetting penetrant ASTRA F 1309 (4000 times) is added to every 20kg of spray liquid, and it can be used after mixing. In general, the dosage of plant growth regulator is 0.025% -0.05%, the dosage of herbicide is 0.025% -0.15%, the dosage of insecticide is 0.025% -0.1%, the dosage of fungicide is 0.015% -0.05%, and the dosage of fertilizer and trace elements is 0.015-0.1%. When using, first dissolve the pesticide, add 80% water and mix well, then add the agricultural wetting penetrant ASTRA F 1309, and then add it to 100% water and mix well. It is suggested that when agricultural wetting penetrant ASTRA F 1309 is used, the water consumption should be reduced to 1/2 (recommended) or 2/3 of the conventional dosage, and the dosage per unit area can be reduced to 70-80% of the conventional dosage. The spray speed should be appropriately accelerated by using a small aperture nozzle.

2. Use of pesticide stock solution

It is recommended to add 0.5-8% of the pesticide stock solution. Adjust the pH value of pesticide formula to 6-8. Users should adjust the dosage of agricultural wetting penetrant ASTRA F 1309 according to different pesticide varieties and formulas to achieve the most economical and effective effect. Compatibility test and step test should be conducted before use.

Package

25, 200 kg plastic pail.

It shall be stored in a cool place, protected from direct sunlight, with a shelf life of 2 years, and transported as non-dangerous goods.