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TECHNICAL DATA SHEET

H-618
Spray Adjuvant

DESCRIPTION

H-618 spray adjuvant is a proprietary trisiloxane alkoxylate based wetting agent, used where spray coverage is needed but rapid uptake of agrochemicals is undesirable.

H-618 spray adjuvant lowers the surface tension of spray solutions, beyond that which is achievable with conventional adjuvants.

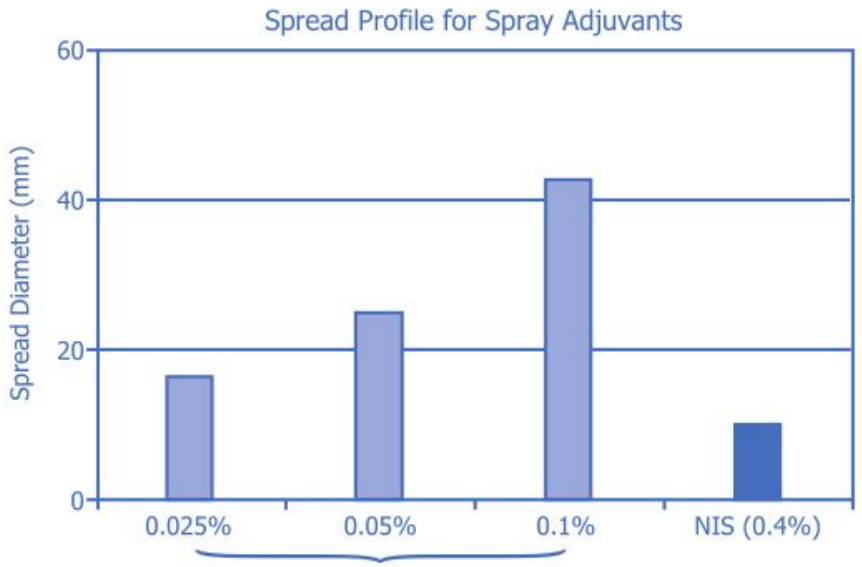
KEY FEATURES AND TYPICAL BENEFITS

*Superspreader
*Promotes spray volume reduction
*Improves spray coverage
*Nonionic

Because **H-618** spray adjuvant is a superspreading surfactant,the contact angle of spray solutions on leaf surfaces is reduced,leading to an increase in spray coverage (Figure 1).

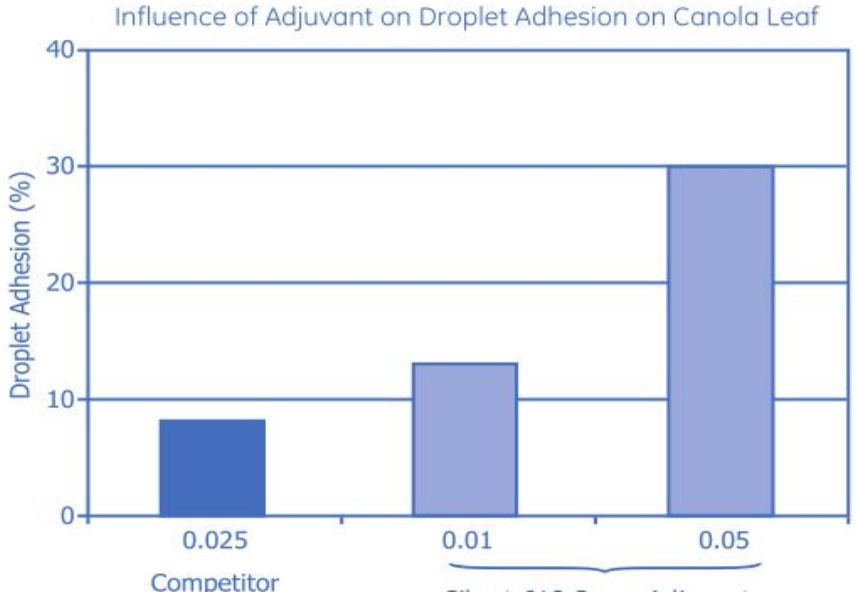
Additionally, under specific conditions, **H-618** spray adjuvant promotes rapid uptake of agrochemicals into plants via stomatal infiltration. Spray solutions taken into plants in this way become rainfast, thereby improving application reliability (Figure 2).

Figure 1: Spreading



H-618 Spray Adjuvant

Figure 2: Droplet Adhesion



H-618 Spray Adjuvant

Spray droplet adhesion was measured on the upper surface of canola leaf,using 750 U droplets,applied from a free-all distance of 50 cm.The leaf was positioned at a 22° angle of incidence.Figure illustrates the improved droplet adhesion for H-618 spray adjuvant as compared to a conventional adjuvant.

H-618 spray adjuvant is nonionic in nature,making it useful with a broad range of agrochemical formulations.

Use level depends on spray volume,spray equipment and agrochemical application.Typical use rates for **H-618** srpay adjuvant range from 0.01 to 0.05% for insecticide and fungicide applications and from 0.025 to 0.1% for herbicide applications.

Equivalent:Momentive Silwet 618

TYPICAL PROPERTIES

Appearance	Yellow to amber
Surface Tension (0.1%,mN/m)	23
Cloud point(0.1 wt%),℃	49
Viscosity (cst @25 ℃)	112
Specific gravity (25/25℃)	1.0102

USES AND APPLICATION

In Agrochemical Formulations

H-618 spray adjuvant may be used as a componet in agrochemical formulatons. Although organosilicone surfactants are subject to hydrolysis under acidic or basic conditions,optimum performance is achieved by buffering the formulation to PH 6.5-7.5. Additionally,it is recommended that **H-618** spray adjvuant be used at a concentration of at least 5%,based on the total formulation.

As A Tank Mix Adjuvant

H-618 spray adjuvant ,when used as a tank-side adjuvant may be used to improve spray coverage,improve uptake or to allow for a reduction in spray volume.**H-618** spray adjvuant is most effective as a tank-side adjuvant when spray mixtures are 1)within a PH range of 5-8,and 2) used within 24 hours of preparation.

Higt spray volumes,coupled with high surfactant rates,are not required to achieve sufficient coverage with **H-618** spray adjuvant. In fact,**H-618** spray adjuvant has the potential to provide adequate coverage in many low volume spray applications at rates between 0.025% and 0.1%

SAFETY

Before handling, read the Material Safety Data Sheet and container label for safe use, physical and health hazard information.

STORAGE AND SHELF LIFE

After sealing packaging products stored in a cool, dry place , **H-618** has a shelf life of 36 months from date of manufacture.

PACKAGING

H-618 is available in 200L drum and 1000L IBC or others.

LEGAL DISCLAIMER

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