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TECHNICAL DATA SHEET

**H-77**

Polyalkyleneoxide modified  
heptamethyltrisiloxane

**CAS:27306-78-1**

**DESCRIPTION**

**H-77**spray adjuvant is a superspreading surfactant based on a trisiloxane ethoxylate.**H-77** spray adjuvant lowers the surface tension of spray solutions, beyond that which is achievable with conventional adjuvants.

Typically, **H-77** spray adjuvant (@ 0.1 wt %) gives an aqueous surface tension of 20.5 mN/m. After the mixture with the pesticide solution at the certain proportion,It can lower the contact angle between the spray and foliage,which can enlarge the coverage of the spray. Furthermore,H-77 can make the pesticide absorded through the stomatal of leaves,which is extremely effective for improving efficacy,reducing amount of pesticide,saving cost,reducing environmental pollution caused by pesticides.

**Equivalent:** Momentive Silwet L-77

**TYPICAL PROPERTIES**

|                        |                                  |
|------------------------|----------------------------------|
| Appearance             | Colourless to light amber liquid |
| Active content %       | 100%                             |
| Viscosity (cst)        | 15-25                            |
| Surface Tension (0.1%) | <20.5mN/m                        |
| Cloud point            | <10                              |

**USES AND APPLICATION**

**H-77** is a super spreading and penetrating agent can be used in formulate or as a tank mix.

**H-77**, as a component of 0.5-8% in agrochemical formulations. Proposing regulation of pesticide formulations PH value of 6-8.

**H-77**, as a tank mix adjuvant , As usual, add 50g H-408 to 200kg spray solution (4000-times diluent).Generally,

| Application                    | Typical Use Rate |
|--------------------------------|------------------|
| Plant Growth Regulators        | 0.025-0.05%      |
| Herbicide                      | 0.025-0.15%      |
| Insecticide                    | 0.025-0.1%       |
| Fungicide                      | 0.015-0.05%      |
| Fertilizers and trace elements | 0.015-0.1%       |

**H-77** wetting properties are useful in various industrial applications e.g. Inks & coatings, Agriculture ,leather,textile and any other applications where strong surface tension reductions,wetting and spreading are desired.



**Without H-77**

**With H-77**

### **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-408** has a shelf life of 36 months from date of manufacture.

### **PACKAGING**

**H-408** is available in 200L drum and 1000L IBC or others.

### **LEGAL DISCLAIMER**

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