Oro Agri International B.V.
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TECHNICAL DATA SHEET
VERSION OCTOBER 2020

WETCIT™

Product Category
Adjuvant

Use Category
Professional

Registration Number
Refer to the national commercial label

Formulation Type
Soluble concentrate (SL)

Active substance/content
ALCOHOL ETHOXYLATE 8,15% w/w

ADJUVANT

General information and key benefits

WETCIT™ is a highly effective adjuvant designed for use with insecticides, miticides, fungicides, herbicides, plant growth regulators, defoliants and fertilizers. **WETCIT** is designed for superior spreading, penetration and uniform distribution. The Non-Ionic (NIS) chemistry in **WETCIT** enhances the physical and chemical properties of the spray solution and assists in overcoming water repellence of the leaf surface.

The product contains a blend of natural plant derived extracts with bio-degradable wetting agents. This combination of components, collectively known as OROWET technology, is patented in various countries worldwide.

This technology is unique and differentiates **WETCIT** from other adjuvants, giving the product a new mode of action and highly effective spreading properties.

No NPE (nonyl phenol ethoxylate) components are included.

In various independent trials it has been proven that the efficacy of commonly used insecticides, miticides and fungicides can be improved through the use of **WETCIT** as wetting agent.

Mode of action

WETCIT effectively reduces the surface tension of water. This significantly improves coverage and spreading of spray droplets on the target surface.

WETCIT with **TransPhloem** technology maximizes foliar tank mix partner penetration by increasing absorption of essential elements through superior deposition and ability to move through leaf surfaces when used with herbicides.

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RE-WETTING ABILITY OF **WETCIT**

WETCIT has a unique characteristic associated with its mode of action which differentiates it from other adjuvants, called its RE-WETTING ABILITY. **WETCIT** is able to maintain a lowered water surface tension on hydrophobic surfaces for a period of 5 to 10 days after spraying. This unique ability enables subsequent sprays during that period to benefit from better spreading functionality and more even distribution of treatments even if **WETCIT** is not used in that spray.

Further, because the RE-WETTING ability of **WETCIT** maintains a lowered surface tension, the formation of water droplets on leaves, fruits and bark after wet conditions (rain, irrigation, morning dew) is inhibited, leaving instead a thin film of water which evaporates quickly. The faster and more efficient drying of the canopy makes conditions for fungus development less favourable and helps to maintain fruits and vegetables of better quality.

Another benefit of the RE-WETTING ability of **WETCIT** is shown in coverage treatments, such as copper, mancozeb or sulphur, which are not mobile and which tend to protect only the tissues which were contacted at the time of spraying. As the leaf or fruit grows, it would normally grow out of the protective shield. However, because of the lowered surface tension caused by **WETCIT**, even the moisture from normal atmospheric humidity will allow the shield to RE-WET and stretch to cover new growth. Thus, the RE-WETTING ability of **WETCIT** promotes better plant protection during the time of the functionality of the PPP partner and protects new vegetable tissues formed during that time.

The RE-WETTING ability of **WETCIT** is directly related to the type of leaf and the duration of this ability is related to weather conditions, sprays and irrigations that may remove it from the leaves.

Classification

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.
- P264 Wash thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WARNING

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Mode of application

As a general wetter, use WETCIT at 25 - 50 ml per 100l.
Use 100 - 300 ml per 100 l (0,1 - 0,3 %) for optimizing efficacy of pesticides.

The higher rate should be used where:
• High insect or disease populations are prevalent.
• Relatively low water volumes are used.
• Hydrophobic (waxy) or hairy plant surfaces or insects with waxy secretions need to be sprayed.
• The product is used with non-selective herbicides.

Application of WETCIT may be made in various ways, for example: high volume mistblower, low volume concentrated spray, pivot, aerial application, backpack, etc. When applying by aeroplane, for example on cereals, a rate of 120 ml / ha is recommended.

Always add WETCIT last to the tank mixture when the tank is nearly full, to prevent excessive foaming.
Old spray residues in spray tanks may be dissolved by WETCIT. This could result in slight crop or leaf damage.
It is recommended that a good tank cleaner is used prior to application with WETCIT. Read the ORO AGRI Crop Guidelines for more specific guidelines on your crop.

Phytotoxicity

WETCIT showed no phytotoxicity at doses and recommendations indicated on the label. Considering the continuous introduction of new varieties of vegetable and crops, it is recommended to evaluate the selectivity of **WETCIT** on small surfaces before proceeding.

Physical and chemical properties

- Physical state: Liquid
- Form: Liquid
- Color: Green
- Odor: Citrus
- pH: 7-8 at 20 °C
- Melting point/ freezing point: Not relevant
- Initial boiling point and boiling range: Not relevant
- Flash point Pensky-Martens > 100°C
- Relative density: 1,0 - 1,1 (water = 1) at 20 °C
- Solubility (water): Not relevant
- Viscosity: 80-130 mPa/s at 20 °C

These physical properties are typical values for this product and should not be considered as guarantees of any specific lot.

Please always refer to the national commercial label for the specific directions for use of WETCIT.
Feel free to contact the local ORO AGRI advisor in your area for more information.

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