

TECHNICAL DATA SHEET

VERSION Jan 2022

BULGARIA, AUSTRIA, GREAT BRITAIN, HUNGARY, THE NETHERLANDS,
IRELAND, GERMANY, GREECE

WETCIT[®]

ADJUVANT

Product Category

Adjuvant

Use Category

Professional

Registration Number

Formulation Type

Soluble concentrate (SL)

Active substance/content

ALCOHOL ETHOXYLATE 8,15%
w/w

General information and key benefits

WETCIT[®] is a highly effective adjuvant designed for use with insecticides, miticides, fungicides, herbicides, plant growth regulators, defoliant 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 repellency 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.

Crop: All crops.

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Mode of application: Foliar application

Crops	Partners	Maximum number of treatments	Latest time of application	Spraying equipment
All crops	-All approved agrochemicals. -Foliar nutrients.	Follow the statutory conditions of use of the agrochemical partner.	Follow the statutory conditions of use of the agrochemical partner	Suitable for use in various applicaton techniques: Full cover tractor application, low volume concentrated, spray, pivot, aerial application, back-pack, etc.

If used on moist crops make sure to increase the initial rate by 0.05% to avoid dilution on the leaf surface.

Mixing: When WETCIT is to be mixed with another substance, the normal mixing procedure prescribed for the partner should be followed. WETCIT must be added last to the spray tank after it has been filled to at least two-thirds of final volume.

For best results use within 24 hours of mixing.

Ensure that all spray equipment is thoroughly cleaned when using WETCIT for the first time as chemical residues present in such spray tanks and equipment may be loosened. Check filters more frequently during initial application.

Application Dose:

Crops	Product type(s)	Adjuvant function	WETCIT concentration in final spray solution (v/v)
All crops	Insecticides, Fungicides, Acaricides, Herbicides, Defoliantes, Plant growth regulators, Foliar fertilizers, Biostimulants	Spreading, Wetting	0.05 – 0.15%
		Spreading, Wetting, + Anti-bounce, Re-wetting, Deposition	> 0.15 - < 0.25%
		Spreading, Wetting, Anti-bounce, Re-wetting, Deposition, + Penetration	0.25 – 0.30%

Compatibility:

WETCIT is compatible with most agro-chemicals. However, compatibility may be influenced by other products in the tank mixture, therefore a preliminary small-scale test should be done with the final mixture before spraying on the intended crops.

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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.



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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

Phytotoxicity

Application should be done in the morning or in the evening (avoid high temperatures).

Do not spray to the point of run-off, especially in fruiting stages of pome fruits, cherries, table grapes, or other sensitive crops.

Due to variation in copper and sulphur formulations, the compatibility test is highly recommended.

Use caution when combining in tank mixes with copper containing products on crops normally sensitive to these compounds.

When tank mixing with products known to cause damage to the crop please do not use an application rate above 0.25% to reduce the risk of phytotoxicity.

When tank mixing several combinations of chemistries, it is advised to reduce the rate of WETCIT to the low end of the spectrum (0.05 – 0.15%).

Please follow the instructions on the label of the agrochemical partners before mixing with the adjuvant.

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

For further information please check the WETCIT safety data sheet (SDS). Feel free to contact a local ORO AGRI representative.

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