



TRANSFORMER®

READ THE ATTACHED PACKAGED LEAFLET BEFORE USE • KEEP OUT OF REACH OF CHILDREN AND ANIMALS

ZEMA Product No: LSK/PTS/00043/Z02/2018:IP-PN:7844

SOIL IMPROVER

TRANSFORMER® is a soil conditioner for application to the soil through irrigation and as a drench.

- Use as a soil application to increase the infiltration rate of water in the soil.
- Decreases penetration resistance in compact soils.
- Increases water holding capacity.



WARNING

HAZARD STATEMENTS:

- May cause an allergic skin reaction
- Causes serious eye irritation
- Harmful if inhaled
- Harmful to aquatic life

PRECAUTIONARY STATEMENTS:

- Do not eat, drink or smoke when using this product
- Wash after use
- Avoid release to the environment
- Wear eye protection

CONTENTS

Orange oil

100 g/ℓ

MANUFACTURED BY:

Oro Agri SA (Pty) Ltd.

REG. No 2001/027414/07

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SEE CONTAINER FOR:

NETMASS/BATCHNO./MANUFACTURINGDATE

DISTRIBUTED BY:

ATS Agrochemicals Limited

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WARNING



GENERAL INFORMATION:

- Improved infiltration of water in compacted soils results in lower penetration resistance and less restriction of root growth.
- Vertical and horizontal water distribution in soil is improved.
- Reduced hydrophobicity and improved water holding in sandy soils.

WARNINGS:

- May cause mild eye irritation on direct contact.
- Store in a cool, dry place away from food and feeds.
- Keep out of reach of children, uninformed persons and animals..

PRECAUTIONS

- In case of contact, immediately wash concentrate from skin or eyes.
- When handling concentrate, avoid contact with eyes by wearing appropriate face shield.
- Wash contaminated clothing daily.
- Do not eat, drink or smoke whilst preparing the spray mix, or before washing face and hands.
- Prevent contamination of rivers, dams and areas not under treatment.
- Clean applicator before and after use and dispose of water where it will not contaminate rivers, dams, grazing and crops.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Invert the empty container over the mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10% of that of the container.
Add the rinsing to the contents of the mixing tank and dispose of the empty container in the prescribed manner after perforating and flattening it.
- **NEVER USE THE CONTAINER FOR ANY OTHER PURPOSE.**

TRANSFORMER® HAS BEEN TESTED EXTENSIVELY AS A SOIL CONDITIONER, UNDER A LARGE VARIETY OF CONDITIONS, AND FOUND TO BE EFFECTIVE. HOWEVER, THE MANUFACTURER AND DISTRIBUTOR DO NOT WARRANT THAT IT WILL BE EFFECTIVE UNDER ALL CONDITIONS BECAUSE ITS ACTION AND EFFECT MAY BE AFFECTED BY FACTORS SUCH AS ABNORMAL CLIMATIC AND STORAGE CONDITIONS; QUALITY OF DILUTION WATER; COMPATIBILITY WITH OTHER SUBSTANCES, AS WELL AS BY THE METHOD AND TIME OF APPLICATION. THE MANUFACTURER AND DISTRIBUTOR FURTHERMORE DO NOT ACCEPT RESPONSIBILITY FOR DAMAGE TO CROPS, VEGETATION, THE ENVIRONMENT OR HARM TO MAN OR ANIMAL, OR FOR LACK OF PERFORMANCE OF TRANSFORMER® AS SOIL CONDITIONER, DUE TO FAILURE OF THE USER TO FOLLOW THE INSTRUCTIONS ON THE TRANSFORMER® LABEL OR THE LABEL OF ANY OTHER SUBSTANCE WITH WHICH IT MAY BE MIXED, OR TO THE OCCURRENCE OF CONDITIONS, WHICH COULD NOT REASONABLY HAVE BEEN FORESEEN BY THE MANUFACTURER AND DISTRIBUTOR. CONSULT THE SUPPLIER OR REGISTRATION HOLDER IN THE EVENT OF ANY UNCERTAINTY.

Oro Agri SA (Pty) Ltd (THE COMPANY) WARRANTS THAT THE PRODUCT CONFORMS TO SPECIFICATIONS ON THE LABEL AND IS REASONABLY FIT FOR THE INTENDED PURPOSE REFERRED TO ON THE LABEL. THE COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY. THE COMPANY RECOMMENDS THAT THE USER TESTS THIS PRODUCT ON A PORTION OF THE CROP TO DETERMINE SUITABILITY FOR THE INTENDED USE.

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DIRECTIONS FOR USE:

USE ONLY AS DIRECTED

- Read ALL the directions on this label and on the labels of products with which **TRANSFORMER**[®] will be mixed. See Application Notes.

DILUTIONS:

For improved infiltration rate, drainage and water distribution

- For the abovementioned soil effects a single application of **TRANSFORMER**[®] per season has proved to be effective. However, because of varying soil types and conditions a follow up application may be necessary.

Application through drip-irrigation systems

- Inject **TRANSFORMER**[®] at a rate of 1 mL/m² (3 ℓ - 5 ℓ/ha) into the drip-irrigation system and continue irrigating with clean water after injection to ensure that the **TRANSFORMER**[®] is adequately washed into the soil.

Application through micro jets and overhead irrigation systems including centre pivots

- Inject **TRANSFORMER**[®] at a rate of 1 mL/m² (5 ℓ - 10 ℓ per planted hectare) in a dilution of 1ℓ per 1000 ℓ or more of water. Ensure that the **TRANSFORMER**[®] is adequately washed into the soil by irrigating with clean water after injection.

Application directly to the soil at planting (for row crops such as cotton, maize, soya and groundnuts)

- Apply **TRANSFORMER**[®] directly into the plant furrow in front of the planter wheel that closes up the plant furrow at a rate of 3 - 5 ℓ per planted hectare. The rate applied per 100 m row length will depend on the row spacing and can be calculated as follows:
Millilitres per 100 m row = Required rate per hectare in liters x (row spacing in centimetre/10)

APPLICATION NOTES:

Calculation of treated surface for irrigated crops:

- The required amount of **TRANSFORMER**[®] per planted hectare is determined by the percentage area wetted by irrigation. For a full surface treatment, 1 mL/m² equals 10 ℓ/ha. If for example 50% of the surface area is wetted by irrigation, then 50% of 10 ℓ/ha = 5 ℓ **TRANSFORMER**[®] per planted hectare.
- **DO NOT MIX** with or add other surfactants.
- **DO NOT MIX TRANSFORMER**[®] with other undiluted tank mix partners or fertilisers until you have done a compatibility test in a separate container.
- The use of **TRANSFORMER**[®] will loosen soil sediment or biofilm in irrigation pipes. After the product is applied through drip or micro-jet irrigation, it is advisable to flush pipes before the next irrigation cycle to prevent blockage of outlets.