50235618 **MANIPULATOR®**

FOR USE ONLY AS AN AGRICULTURAL PLANT GROWTH REGULATOR FOR PROFESSIONAL USE ONLY

An soluble concentrate plant growth regulator formulation (pH buffered) containing 620 g/L (54%w/w) chlormequat and metabolic adjuvants for use on spring and winter wheat, spring and winter barley and oats for improved yields and lodging control

SAFETY INFORMATION UFI: KS1T-9V26-5X06-4QCM

Hazard Statements May be corrosive to metals Harmful if swallowed Harmful to aquatic life with long lasting effects **Precautionary Statements**

IF SWALLOWED; call a POISON CENTRE or doctor/pl ysician if you feel unwell WARNING Absorb spillage to prevent material of make

Dispose of contents/container of a licensed haz ardous waste disposal

Contractor or collection site sice, it for triple rinsed empty containers which can

be disposed of as non-hazardous waste To avoid risks to human heal and the environment, comply with instructions for use

PCS No.: 05445

Please see attached leaflet for produc use details. Read accompanying instructions before use APPROVAL HOLDER DISTRIBL OR:



Taminco by

Pantserschipstraat 207 9000 Gent. Belgium Tel: 00 32 9 254 1411 Email: woninfo@eastman.com



DHM Agrochemicals

DHM Agrochemicals Castle Lodge, Kilgobbin Road Dublin 18 Ireland Tel. (01) 295 2377 Fax. (01) 295 9399

Poisons Information Centre of Ireland: Tel: 00 353 (0) 1 809 2566

Emergency only: NCEC +44 1235 239670

Tel: 00 353 (0) 1 837 9964

Email: info@dhm.ie

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Batch No.: See container

Manufacturing date: See container

PROTECT FROM FROST

MANIPULATOR®			
Crop	Maximum Sungle Dose (L/ha)	Maximum Total Dose (L/ha/crop)	Latest time of application
Winter Wheat	1.8	1.8	Before flag leaf fully unrolled (GS39)
Spring Wheat	0.9	0.9	Before flag leaf fully unrolled (GS39)
Winter Barley, Oats, Rye, Triticale	2.3	2.3	Before flag leaf fully unrolled (GS39)
Spring Barley	1 25	1 25	Refore four leaves unfolded (GS14)

READ THE LABEL BEFORE USE. USING THE PRODUCT IN A MANNER WHICH IS INCONSISTENT WITH THE LABEL MAY RE AN OFFENCE. FOLLOW THE PRINCIPLES OF GOOD PLANT PROTECTION PRACTICE WHEN USING PLANT PROTECTION PRODUCTS

SAFETY PRECAUTIONS

OPERATOR PROTECTION:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment; WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate or contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY

WHEN USING DO NOT EAT, DRINK OR SMOKE. IF YOU FEEL UNWELL, seek medical advice (show label where possibly

WASH HANDS AND EXPOSED SKIN before meals and after work.

ENVIRONMENTAL PROTECTION

Do not contaminate water with the product or its container. (Do not clean application equipment new "/ Avoid contamination via drains from farmyards and roads). Extreme care must be take to avoid spray drift on to non-crop plants outside of the larget and

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place

WASH OUT CONTAINER THOROUGHLY by using an integrated pressure rinsing devices, mane "by ringing three times." gs t sprayer at time of filling and dispose of safely. DO NOT REUSE CONTAINER for any purpose.

KEEP OUT OF REACH OF CHILDREN

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS

DIRECTIONS FOR USE

IMPORTANT: This Information is authorised as part of the Proc. ct label. A Instructions within this sec. on myst be read carefully in order to obtain safe and successful use of this product. The application of MANIPUL'.TOR an result in yield increase and reduction in early lodging from a spring application. This control of lodging Is more consistent in wheat than in barley

MANIPULATOR® APPLICATION RATES AND TIMING

Winter wheat

1.0 I/ha - Apply MANIFULATU * at 6.25.39 to reduce lodging and pi, at height and increase stem diameter Single application

1.8 I/ha - Use this raw where where is a high risk of loc.

Split dose application 0.8 followed by 1 1 2 or 1 2 ollowed by 0.8 L/ha - Apoly N. AVII - "ATOR" at up to GS39 ensuring that the maximum total dose of 1.8 l/ha is not exceeded. Winter barley

single application
Spiring wheat
2.3 J/ha - Apply MANIPULATOR® at GS30-3 for e use lodging and plant height and increase stem diameter
3.3 J/ha followed by 1.0 J/h - Apply 1.3 J/hard MANIPULATOR® before GS39.
3.5 J/hard MANIPULATOR®

Oats

Single application

2.3 I/ha - Apoly MANIPULATOR® from ust lefore the beginning of stem elongation (GS 30) until no later than flag leaf sheath extended stage (GS 39) Split dose application 1.15 I/ha followed by 1.15 I/ha - A, ., 1.15 I/ha MANIPULATOR® from just before the beginning of stem elongation (GS 30) followed by

a further application or 1.15 I/ha until no later than flag leaf sheath extended stage (GS 39)

APPLICATION VOLUME Apply the recommended rate of MANIPULATOR® in at least 200 litres of water per hectare.

MIXING SHAKE WELL BEFORE USE. Add MANIPULATOR® to a half-filled spray tank. Top up the tank to the required volume and ensure thorough mixing before and during spraying. CLEANING APPLICATION EQUIPMENT After each days work, drain the sprayer, wash thoroughly with water and liquid detergent and spray out completely. Ensure that all liquid is removed from the spray tank, pump and hoses and ensure nozzles and nozzle filters are clean. Remove nozzles, open tank and drain pump to allow free access of air to all parts of the system. APPLICATION CONDITIONS Do not apply MANIPULATOR® to crops under significant stress from water-logging, drought or nutrient deficiency. In hot, dry weather a better result might

be obtained from application in the early morning or evening. UNDERSOWN CROPS MANIPULATOR® may be used on crops undersown with clovers and grasses.

VARIETAL RESTRICTIONS There are no varietal restrictions on the use of MANIPULATOR®

CAUTION Although MANIPULATOR® may be used under normal seasonal temperatures (down to 1°C) and ground conditions, it should not be sprayed onto plants covered with frost and requires two hours before rain or frost for a good effect to be obtained. Do not allow MANIPULATOR® to drift onto neighbouring crops. The use of poultry manure or slurry on crops may significantly reduce the lodging control obtainable with MANIPULATOR®

USE OF STRAW Do not use straw from MANIPULATOR® treated cereals as a horticultural growth medium or as a mulch.

COMPATIBILITY Provided that all product recommendations are followed, MANIPULATOR® is compatible with a range of commonly used plant protection products, including other plant growth regulators. For up to date details of compatible tank-mixes contact your distributor/the manufacturer/your agronomist.

When using MANIPULATOR® with a foliar fertiliser, thoroughly mix MANIPULATOR® before adding the fertilizer to the spray tank. Do not use in tank mixtures with liquid nitrogen fertilizer. Most chelated

or complexed forms of trace elements are compatible with MANIPULATOR® but some inorganic forms, especially those of manganese (such as manganese sulphate), can cause problems in tank mixture. CONDITIONS OF SUPPLY: All products supplied are of high quality and believed to be suitable for use as directed. However, as we have no control over their use or mixing, weather conditions before, during or after application and crop condition, no warranty express or implied is given that the goods are reasonably fit for the buyers purpose. NO responsibility will be accepted for damage or injury, whether consequential or otherwise, whether due to negligence or any other cause whatsoever arising either directly or indirectly from storage, handling, use or misuse.