



NITROGEN  
MANAGEMENT



DRY FERTILISER  
ENHANCEMENT

The application rate of NITRAIN™ nitrogen stabiliser is 1.5 L/MT of urea. NITRAIN™ nitrogen stabiliser can be applied onto urea with a variety of fertiliser blenders: vertical batch blenders, horizontal batch blenders, continuous flow/volumetric blenders and auger based systems.

#### **METERING NITRAIN™ NITROGEN STABILISER**

NITRAIN™ nitrogen stabiliser can be measured by weight, graduated volumetric container or by flow meter depending on set up of plant.

#### **BATCH BLENDERS**

- Always apply NITRAIN™ nitrogen stabiliser onto urea first. If other nutrients are to be added to the blend, do so after the NITRAIN™ nitrogen stabiliser has been applied firstly to the urea and thoroughly mixed for uniform coverage.
- Start filling the batch blender with urea. When approximately 1000 kgs are in the blender, start the pump to deliver the required amount of NITRAIN™ nitrogen stabiliser. Where possible, time the delivery window of the stabiliser to finish when the urea finishes. This will optimise the mixing time.
- NITRAIN™ nitrogen stabiliser can be applied into the top of the blender as a single stream, through spray tips or with an impregnation ring or by adding over the top of the urea from a container.

#### **VOLUMETRIC BLENDERS**

- In blenders that are continuous flow, it is important to ensure that the flow rate of NITRAIN™ nitrogen stabiliser is matched to the flow rate of urea being treated.
- In cases where other nutrients are to be added to the blend, it is recommended that the urea be the furthest away bin and NITRAIN™ nitrogen stabiliser is applied and mixed onto the urea before other nutrients are added to the blend.
- NITRAIN™ nitrogen stabiliser can be applied with a pump and added as a single stream, through a dribble bar or through a spray nozzle. Anything that can be done to improve primary coverage will hasten the mixing and coverage.

#### **STORAGE AFTER BLENDING**

Granular dry urea treated with NITRAIN™ nitrogen stabiliser is suitable for long-term storage. Research shows stabilised fertiliser may be stored up to 9 months without compromising effectiveness.

#### **MATERIAL COMPATIBILITY**

NITRAIN™ nitrogen stabiliser is compatible with a range of pump and seal materials. When given the choice, EPDM is preferred. When using Viton seals, care should be taken to ensure pumps are flushed and clean when not in use for an extended period of time.

#### **CLEANING**

- DO NOT USE WATER. Addition of water directly into NITRAIN™ nitrogen stabiliser can cause crystals to form that are difficult to flush out. These crystals can plug spray nozzles or plug lines.
- Lines can be drained and then purged with air.
- Collect rinsate and dispose of contents/container in accordance with local/regional/national regulations.

#### **USING MULTIPLE PRODUCTS**

If more than one product is being applied, it is recommended that a dedicated pump/line be utilised for NITRAIN™ nitrogen stabiliser. This will ensure quick, seamless switch overs with little risk of cross contamination or need for cleanouts between products.

#### **STORAGE & DISPOSAL**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

#### **SAFETY EQUIPMENT WHEN HANDLING**

- Neoprene gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
- Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove contaminants.
- Respiratory protection – Use with adequate ventilation (natural or mechanical ventilation sufficient to provide good aeration of the workplace). If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment. Wear air supplied respiratory protection if exposure concentrations are unknown.

#### **SAFETY DATA SHEET**

For further information, refer to the Safety Data Sheet.

Always read the label and follow label directions. The information provided in this publication is intended as a guide only. Although Nutrien Ag Solutions has taken all due care to provide accurate information in this publication, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should rely upon the information contained in this publication without appropriate professional advice regarding relevant factors specific to your situation such as planting times and environmental conditions. To the maximum extent permitted by law, and except as prohibited under the Competition and Consumer Act 2010 (Cth), Nutrien Ag Solutions will not be liable for any loss or damage suffered by any person arising out of any reliance on any information, recommendation or advice contained in this publication. Where our liability cannot be excluded, it is limited at our option to supplying the relevant services again, or paying the cost of that supply. Available from Nutrien Ag Solutions and marketed under the Loveland Agri Products brand. Loveland Agri Products® and the Loveland Agri Products® device are registered trademarks of Loveland Products, Inc.

