

N-EDGE® SOIL NITROGEN STABILIZER



CONTAINS

Dicyandiamide (DCD) CAS No: 461-58-5
Dimethyl sulfoxide (DMSO) CAS No: 67-68-5
2 (2-aminoethoxy) ethanol CAS No: 929-06-6

N-Edge® Soil nitrogen stabilizer is supplied as a 28% by weight active ingredient solution of Dicyandiamide (DCD).



HAZARD STATEMENTS

Flammable liquid and vapor. Causes skin irritation.

PRECAUTIONARY STATEMENTS

Do not handle until all safety precautions have been read and understood. When using this product, wear eye, face, skin and clothing protection. Do not eat, drink or smoke when using this product. Keep container tightly closed, grounded and keep from heat, sparks, open flames and hot surfaces. Take precautionary measures against static discharge as well as use only non-sparking tools and explosion-proof electrical lighting, ventilation and equipment. After handling this product, wash hands, forearms and face thoroughly.

IF EXPOSED OR CONCERNED

Immediately call poison control center or doctor for further treatment advice. **If on skin:** Wash thoroughly with water immediately and remove all contaminated clothing and wash before reuse. If skin irritation occurs, get medical attention. **If swallowed or in eyes:** Rinse cautiously with water for several minutes. Remove and wash contaminated clothing before reuse. Dispose of contents/ container to a licensed hazardous waste facility in accordance with state and local agencies. **In case of fire:** Use CO₂, dry powder, sand or foam to extinguish. Store in a cool, well-ventilated area.

Supplemental label information:
Restricted to professional users.

FOR CHEMICAL EMERGENCY:
Call CHEMTREC day or night.

USA and Canada:
1-800-424-9300

Outside USA and Canada:
+1 703-527-3887
(collect calls accepted)

**READ THE SAFETY DATA SHEET
BEFORE USING THIS PRODUCT.**
Always read and follow label directions.

At 70°F / 21.1°C the Specific Gravity = 1.164 and the Weight per gallon = 9.71 lb./gal.

DIRECTIONS FOR USE - WARNING

Read the entire label before use. Use according to label directions. Read the entire **Conditions of Sale and Limitation of Warranty** before buying or using this product. Always wear proper personal protection; use Neoprene gloves (Ansell Edmont Neox Number 9-912) or equivalent, long sleeves, long pants, and chemical splash goggles when handling N-Edge Soil nitrogen stabilizer.

GENERAL INFORMATION

N-Edge Soil nitrogen stabilizer is a uniquely formulated fertilizer additive for urea and urea ammonium nitrate (UAN) fertilizers.

N-Edge Soil protects nitrogen against below ground losses by delivering DCD, a proven nitrification inhibitor that extends the presence of ammonium and delays its conversion to nitrate. The positive charge of ammonium is held by soil particles, diminishing the potential for nitrate leaching and/or denitrification.

This nitrogen stabilizer is combined with urea or urea containing fertilizers prior to application. The combination, recognized as an enhanced efficiency fertilizer, can be incorporated or applied pre-plant, side-dress or used for surface applications. It helps create an efficient nitrogen source for all crops, turf and forestry.

[Protect this product from freezing.](#)

USE RATE

N-Edge Soil nitrogen stabilizer is supplied as a 28% by weight active ingredient solution of Dicyandiamide (DCD).

General rate recommendations are based on average conditions that lead to nitrogen loss due to leaching and denitrification. Protecting nitrogen at the root zone is especially critical in the following situations:

- 1) Poorly drained, water logged or heavily compacted soil.
- 2) Fields with porous soils, subject to leaching, in areas with excessive water or rainfall.
- 3) Fields and crops that benefit from keeping the ammonium form of nitrogen available for a longer time.

USE RATE PER TON OF FERTILIZER

Urea	4 quarts per ton
UAN	2 quarts per ton

UREA APPLICATION

Ensure operators are wearing proper personal protection.

Blending area must be well-ventilated with large volumes of air exchange. NIOSH/MSHA approved organic/mist respirators may be required if there is insufficient ventilation.

Minimize temperature and humidity extremes when blending. Extremes may result in urea particles sticking together creating problems with uniform coverage. Small amounts of drying agents may be used as deemed appropriate for local conditions. The use of such products is based upon the blender's experience with such agents.

Equipment Required

A fertilizer blender or other suitable rotary device is suitable for uniform blending of urea and N-Edge Soil nitrogen stabilizer. Ensure that all surfaces of the blender that come into contact with materials are clean, dry and rust-free.

N-EDGE® SOIL NITROGEN STABILIZER



Blending Procedure

- Accurately weigh all materials in the blend formula.
- Add urea first to the blender. N-Edge® Soil nitrogen stabilizer should be blended with the urea before introducing any other fertilizer components.
- Apply N-Edge Soil nitrogen stabilizer to urea in blender by suitable method and allow sufficient time to produce a uniformly blended product. Dye is added to the product to act as an indicator of uniform blending.

UAN APPLICATION

Ensure operators are wearing proper personal protection.

UAN Blending Procedure

- Fill the blend unit half full with UAN solution.
- Add N-Edge Soil nitrogen stabilizer at the appropriate rate for the entire load and mix.
- Add the remaining UAN solution and mix thoroughly prior to the addition of any surfactants, pesticides or any other materials.

Compatibility

Perform a jar test with any additional products to evaluate compatibility before mixing.

GENERAL USE PRECAUTIONS

NOT A FERTILIZER SUBSTITUTE

NOT RECOMMENDED FOR FEED APPLICATION

Observe all precautions on label and read material safety data sheet before use. Do not apply directly to water. Avoid contaminating waterways and sewers during cleaning of equipment, disposal of wastes. Use and disposal of all materials must be in accordance with all applicable provisions of local, state and federal laws and regulations.

INHERENT RISKS OF USE AND LIMITATION OF LIABILITY

CONDITIONS OF SALE AND LIMITATION OF WARRANTY

CHS Inc. warrants that this product conforms with its specifications and is reasonably fit for the purposes stated on the label when used in accordance with its directions under normal conditions of use. To the extent permitted by applicable law, buyer assumes the risk of any use contrary to such directions. CHS Inc. makes no other **expressed** or implied warranty of fitness or merchantability and no agent or reseller is authorized to do so except by CHS Inc. in writing with a specific reference to this warranty. To the extent consistent with applicable law, in no event shall CHS Inc.'s liability for any breach of warranty exceed the purchase price of the material on which claim is made.

- Jug: 2.5 U.S. gal. (9.46 Liters)
Net Weight: 24.28 lb. (11.01 kg)
- Box: 2 x 2.5 U.S. gal. (2 x 9.46 Liters)
Net Weight: 48.56 lb. (22.02 kg)
- Tote: 250 U.S. gal. (946.35 Liters)
Net Weight: 2,428 lb. (1,101 kg)

Manufactured for CHS Inc.
5500 Cenex Drive
Inver Grove Heights, MN 55077

