



n-decanol



Plant Growth Regulator

A compound for the control of sucker growth on flue-cured and burley tobacco

Reg. No.: 19-G-8-38

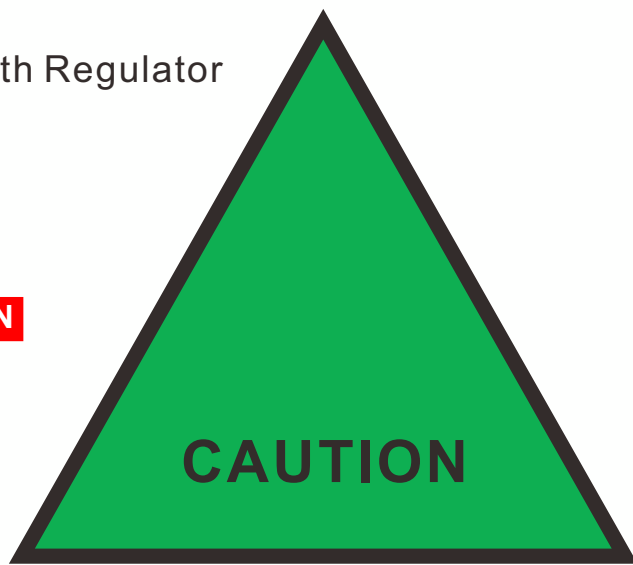
<u>Composition</u>	<u>(mass/mass)</u>
N-decanol.....	78.5%
Inert ingredients.....	21.5%

Chemical group: Plant Growth Regulator

20 Litres Net

KEEP OUT OF REACH OF CHILDREN

Supplied to you by Maguires
A member of:



HARMFUL IF SWALLOWED
TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.

Registration held by:

MAGCHEM (PVT) LIMITED
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE



1. Tripple rinse clean container after use
2. Punctures holes in bottom
3. Return to Maguires Recycling Facilitator / Return to nearest recycling facility

SAFETY PRECAUTIONS:

1. Wear goggles and rubber gloves when handling the concentrate.
2. Avoid inhalation or spray mist.
3. Do not eat, drink or smoke while applying or before washing hands and face.
4. KEEP OUT OF REACH OF CHILDREN
5. May be dangerous to wild animals, birds, fish, bees and other animals.
6. KEEP APART FROM FOOD AND FOODSTUFFS.
7. Store in original container and KEEP UNDER LOCK AND KEY.
8. If knapsack sprayers are used for application, the operator must use a respirator to prevent inhalation of the spray.
9. Destroy empty container. Do NOT use for any other purpose.

SYMPTOMS OF POISONING:

No known symptoms.

FIRST AID:

Should accidental poisoning occur, call a doctor and show him this label. In the case of eye contact, flush with plenty of water.

NOTE TO PHYSICIAN:

Treat symptomatically.

DIRECTIONS FOR USE: (Use only as directed)

T. R. B Cert. Number: 16-19-G-45

TIME OF APPLICATION:

Straighten any leaning plants. Remove all suckers over 20mm long.

1. **BEFORE TOPPING** - For early sucker control, apply 5ml of n-decanol to plants about two thirds grown. The suckeride must not be applied to the top of the plant, as it will burn the small developing leaves in the heart. It should be applied to the axil of a reasonably well-developed leaf (about 300mm long). This treatment must be followed by the normal application of suckeride at topping time.
2. **AFTER TOPPING** - Top the tobacco plants as soon as the uppermost required leaf is of such size that it will not be damaged by the topping action. Apply diluted emulsion as soon as possible after topping and preferably within 2 days. Even crops can be treated when 10% of plants are at the correct topping stage. Top plants at the correct stage and treat ALL plants within the next 10 days. Uneven crops should be topped and treated as the plants reach the correct stage.

DO NOT apply if plants are wet from rain or dew. Allow to dry before treatment. For effective sucker control, there should be no rain for 2 hours after application.

DO NOT spray wilted plants, or apply on very hot, sunny days when temperatures are over 30°C as some scorching of leaves may occur. If wind has turned leaves over, these must be returned to their original position before application, as burning can occur on the more tender under-leaf surface.

METHODS OF APPLICATION:

1. **KNAPSACK SPRAYER** use coarse solid cone nozzle held 150-200mm above top leaves of the plant and a pressure of no more than 150-200 kPa.
2. **FERTILIZER CUP** Pour over top of stalk.
3. **DOSAGE GUN** Apply over top of stalk.

DILUTION RATE AND VOLUME OF APPLICATION:

To 1 part of n-decanol add 25 parts of water. For every early topping (top leaf less than about 100mm) use a more dilute solution of 1 part n-decanol to 33 parts water. If the more dilute solution is used, a second application of suckeride will be necessary and it should be diluted as 1 part n-decanol to 25 parts water. The second treatment is applied once the top leaves have grown sufficiently (100 to 150mm long). To ensure satisfactory emulsification, always add the water to the n-decanol. Apply 8-12ml of the diluted emulsion per plant at topping, depending upon the size of the crop. This can be determined by watching the material flow down the stalk and ensuring it reaches the base of the stalk touching every sucker on the way (excess suckeride at the base of the stalk will not do any harm.)
DO NOT allow the mixture to stand for prolonged periods before application.

COMPATIBILITY:

Apply the recommended mixture on its own. Do not apply with insecticides, fungicides etc., or apply to plants that have recently been treated with such chemicals, unless experience has shown that it is safe to do so. N-decanol can, however, be mixed with the following aphicides: Dimethoate and Metastystox.

SAFETY PRECAUTIONS

Empty container disposal

Invert the empty container over the spray tank or mixing tank and allow to drain 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 the container. Add the rinsings to the contents of the spray tank. Destroy the empty container by perforation and flattening. Return to supplier for recycling. **DO NOT** use for any other purpose. Dispose of the wash water at a site for the disposal of pesticides.

Decontamination of sprayer

Clean applicator thoroughly after use and ensure that all traces of N-Decanol are removed. Make use of the following method;

- (a) Drain and rinse tank, spray boom and hoses with clean water for at least 10 minutes
- (b) Fill tank with clean water and add it to 1 litre household bleach (5%) or 1.5 Litres of household bleach (3.5%) per 200 Litres of water. Rinse hoses and spray boom and leave in tank for 15 minutes whilst agitating. Drain through nozzle outlets.
- (c) Repeat step (b) and thereafter, rinse thoroughly with clean water and dispose of the wash water at a site designated for the disposal of pesticides.

WARRANTY:

The excellent results which this chemical should normally yield, are not however warranted or guaranteed, as efficacy can be greatly influenced by factors outside the control of either the manufacturers or the suppliers. No warranty whatsoever, express or implied, is therefore given concerning the performance or efficacy of this chemical and responsibility is specifically excluded for any damage, injury or loss of any kind during or resulting from its handling, use or storage, whether or not such has been in accordance with directions.

This product is warranted to consist of the ingredients shown on the label.

SHELF LIFE: A minimum of 2 years under cool, constant conditions.

Date of Manufacture:

Batch No.:

Manufactured by:

NOVAAGRO (HK) LTD
6TH FLOOR, WYNDHAM PLACE,
44 WYNDHAM STREET,
CENTRAL HONG KONG

Registration held by:

MAGCHEM (PVT) LIMITED
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE

MATERIAL SAFETY DATA SHEET (MSDS)

n-DECANOL 79% EC

1. IDENTIFICATION OF THE COMPANY / SUBSTANCE

SUPPLIER : **NOVA AGRO (HK) LTD.**
(Reg. No. 1023146)
6th Floor Wyndham Place
44 Wyndham Street
CENTRAL HONG KONG.

Date of this document: February, 2021

Emergency Telephone Numbers:

Poisonings

National Poison Centre: (+27)-21-938 6084 (office hours).

(South Africa): (+27)-21-931 6129 (after hours); (+27)-800 33444 (24 h)

Product name: n-DECANOL

Chemical name: n-Decanol

Chemical type: Plant growth regulator (PGR) for control of sucker growth in tobacco

Chemical family: fatty alcohol

2. COMPOSITION / INFORMATION ON INGREDIENTS

<i>Chemical name</i>	<i>Concentrate</i>	<i>Cas Number</i>	<i>EC number</i>	<i>R Phrases</i>	<i>Symbols</i>
n-Decanol	79%	112-30-1	203-956-9	36/38	Xi N

3. HAZARDS IDENTIFICATION

- Contact with eyes: May cause irritation
- Contact with skin: May cause irritation
- Harmful to aquatic organisms (R52)

4. FIRST-AID MEASURES

Contact with skin: Wash affected area with plenty of soap and water.
Seek medical advice if necessary.

Contact with eyes:	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes Seek medical attention if irritation persists.
Ingestion:	Give plenty of water to drink. Obtain immediate medical attention.
Inhalation:	Remove patient to fresh air. Seek medical attention if ill effects occur.

5. FIRE-FIGHTING MEASURES

- Auto ignition point 257⁰C at 760mm Hg
- Flash point >109⁰C (CC)
- Carbon oxides may be formed
- In case of fire, do not breathe fumes
- Wear Positive-Pressure Breathing Apparatus
- In case of fire use water, foam, carbon dioxide or dry agent (S43)

6. ACCIDENTAL RELEASE MEASURES

- Special precautions: Wear protective clothing as per section 8
- Clean up actions: Absorb spillage in suitable inert material
Sweep or shovel-up spillage and remove to a safe place.
Remove contaminated material to safe location for subsequent disposal.

7. HANDLING AND STORAGE

HANDLING

- The usual precautions for handling chemicals should be observed
- Keep away from food, drink and animal feeding stuffs (S13)
- When using do not eat, drink or smoke (S20/21)

STORAGE

- Keep locked up and out of reach of children (S1/2)
- Keep in a cool, well ventilated place away from food stuff (S3/9/14)
- Keep only in the original container (S49)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls

- Engineering controls should be provided which maintain airborne concentrations as low as practicable

Precautionary measures

- Ensure adequate ventilation

Personal protection

- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- Wear suitable protective clothing (S36)

9. PHYSICAL AND CHEMICAL PROPERTIES

- Odour: characteristic
- Appearance: colourless to yellow liquid
- pH: not known
- Boiling point: 232°C at 760mm / Hg
- Vapour pressure: 7mm/Hg
- Vapour density: not known
- Melting point: not applicable
- Specific gravity: 0.867 g/cm³
- Flash point: >109°C (CC)
- Auto-ignition point: 257°C at 760mm Hg

10. STABILITY AND REACTIVITY

- Stable for storage for at least two years if stored under normal storage conditions (<25°C)
- Avoid overheating

11. TOXICOLOGICAL INFORMATION

- LD₅₀ (Oral, rat): >5000 mg/kg
- LD₅₀ (skin, rabbit): >6000 mg/kg
- LC₅₀ (inhalation, rat): >20 mg/l/4h
- Irritation to skin (rabbit): Moderate
- Irritation to eyes (rabbit): Moderate
- Sensitization (guinea pig): Negative

12. ECOLOGICAL INFORMATION

- Harmful to aquatic organisms (R52)
- Marine pollutant
- Do not contaminate surface waters or ditches with chemical or used container

13. DISPOSAL CONSIDERATIONS

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers

14. TRANSPORT INFORMATION

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains n-decanol 690g/l)

Emergency action code:

UN No: 3082

Hazard class: 9, Miscellaneous

Packing group: III

Road/Rail (ADR/RID)

ADR UN no.: 3082

ADR Hazard class: 9, Miscellaneous

ADR Item no.: 9, 11(c)

ADR/RIDno.:

Tremcard:

TEC(R)-90G01

Sea (IMDG)

IMDG UN no.: 3082

IMDG Hazard class: 9, Miscellaneous

IMDG Page no.:

IMDG Pack group: III

IMDG EmS:

IMDG MFAG:

Air (ICAO/IATA)

ICAO UN no.: Not regulated

ICAO Hazard class:

15. REGULATORY INFORMATION

Classification and labeling

- The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents
- The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties
- The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications – usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Applicable laws

- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Refer to current The Dangerous Preparations Directive (88/379/EEC)

Risk Phrases

- Harmful to aquatic organisms (R52)

Safety Phrases

- Keep locked up and out of reach of children (S1/2)

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- Keep in a cool, well ventilated place away from foodstuff (S3/9/14)
 - When using do not eat, drink or smoke (S20/21)
 - Wearing suitable protective clothing (S36)
 - Keep only in the original container (S49)

16. OTHER INFORMATION

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.
