



BUDDY 45

Reg. No. L10825, Act No. 36 of 1947 | Reg. Nr. L10825, Wet Nr. 36 van 1947

Read the label before use
Keep out of reach of children and animals

A plant growth regulant formulated as a soluble concentrate, for the induction of flowering and uniformity of crop growth in pineapples; to prevent premature fruit drop in certain apple and pear cultivars, and for nfruit thinning in apples.

'n Plantgroeireguleerder geformuleer as'n wateroplosbare konsentraat, vir die bevordering van eenvormige bloeiselvorming en gewasgroei by pynappels; om voortydige vrugval by seker soorte appels en pere te voorkom, en vir vruguitdunning in appels

Danger

Hazard Statements

Causes skin irritation.

Causes serious eye damage

Precautionary Statements

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.



ACTIVE INGREDIENT:

1-naphthylacetic acid 45 g/l

Manufactured for and registered by/Vervaardig vir en geregistreer deur:

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

P. O. Box/Posbus 82021, Southdale, 2135

Tel: 031-764 3011

AKTIEWE BESTANDDEEL:

1-naftielasynsuur 45 g/l

BATCH NO. LOT NR.	
DATE OF MANUFACTURE DATUM VAN VERVAARDIGER	
EXPIRY DATE VERVAL DATUM	

NET VOLUME /
NETTO VOLUME

1 l

UN No./VN Nr. 1993

National Poison help line/emergency contact number: 086 155 5171

WARNINGS:

- May irritate skin.
- Causes serious eye damage.
- Poisonous when swallowed.
- Store in a cool, dry place, away from food and feed.
- Store BUDDY 45 in a tightly closed container away from water supplies, seeds, fertilizers and eating utensils.
- Keep out of reach of children, uninformed people and animals.
- Re-entry - Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although **BUDDY 45** is regarded as crop-safe on most important cultivars, this does not mean that a more sensitive cultivar might not be commercialized in the future. Where a new cultivar is encountered, large areas should not be sprayed without prior testing of BUDDY 45 on that cultivar.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed to the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier or registration holder in the event of any uncertainty.

PRECAUTIONS:

- Wash hands thoroughly after handling.
- Wear protective gloves/eye protection/face protection.
- IF ON SKIN: Wash with plenty of water.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If skin irritation occurs: Get medical help.
- Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non - hazardous waste.
- Do not inhale spray mist.
- Wash contaminated clothing daily.
- Wash with soap and water after skin contact. In case of eye contact, wash with running water.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes. Prevent contamination of food, eating utensils, feed and drinking water.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or other areas not under treatment.
- When empty, invert the container over the spray tank or mixing tank and allow it 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 at least one tenth of that of the container and add the rinsing to the contents of the spray tank. Destroy the container by puncturing and burying or burning it. Do not use the container for any other purpose.

RELEVANT SUBSTANCES:

Components	%
Naphthalene acetic acid	< 5
Sodium salt of alkyl aryl benzene sulphonate	< 5
Sodium hydroxide	< 3

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY:

Do not mix **BUDDY 45** with any other sprays or adjuvants except with carbaryl containing products registered for apple thinning.

MIXING INSTRUCTIONS:

SHAKE WELL BEFORE USE, REPLACE CAP AFTER POURING.

Thoroughly mix the recommended quantity of BUDDY 45 with clean water as follows: Put approximately half the required volume of water in the spray tank. Then add the required quantity of **BUDDY 45**. Top up to the volume required and ensure thorough mixing before application. Do not leave prepared spray standing overnight. If spray is prepared in a bulk mixing tank, always stir thoroughly before filling spraying machine.

APPLICATION:

BUDDY 45 should be applied during warm, dry weather, preferably during mid-morning when moisture or dew has had time to evaporate. Should rain fall within 24 hours a further spray application (on pineapples) will be necessary.

APPLICATION TABLE:

CROP	USE	DOSAGE	REMARKS
APPLES <u>EASY-TO-THIN CULTIVARS:</u> e.g., standard red cultivars, young and vigorous Royal Gala types, and Granny Smith	Chemical Thinning of fruit	11 ml/100ℓ water	Should be applied once only as a full cover spray between petal fall and fruit diameter not exceeding 5 mm. To be used under expert guidance on Granny Smith, and only favourable fruit thinning conditions is NOT present, as overthinning may result. Buddy 45 must not be combined with or sprayed in a programme with other thinning remedies on any of these cultivars. See also <u>NOTES: Thinning of apples</u> below.
<u>DIFFICULT-TO-THIN CULTIVARS:</u> e.g. full bearing Royal Gala types, red spur types, Braeburn, Cripp' Pink, Cripp's Red, Fuji types and Golden Delicious types	Chemical Thinning of fruit	11 ml/100ℓ water	Should be applied once only as a full cover spray between petal fall and fruit diameter not exceeding 5 mm. This application should be followed with an application of a registered Carbaryl containing product) at 10 – 15 mm fruit diameter. See also <u>NOTES: Thinning of apples</u> below.
APPLES & PEARS	Prevention of premature fruit drop	22 ml/100ℓ water	Apply as a full cover spray in warm, dry weather. Use high volume application rates of about 3000 ℓ/ha 6 days before the estimated day of picking.
PINEAPPLES (Cayenne & Queen varieties)	Promotion of uniform crop growth, flower induction and to concentrate the harvest	22,5 ml /	Apply just before the expected flowering period in warm, dry weather.
Plant crop - Summer months		22.5 ml / 100 ℓ water (Standard solution)	Hand application: Pour 30 to 50 ml of the standard solution into the crown of each plant or sucker. Bud emergence will occur between 45 days (warm months) and 120 days (cold months) after application. Planting density will determine the amount of standard solution needed, e.g., to treat 25 000 plants/ha - 1 250 ℓ and 100000 plants/ha - 3 000 ℓ will be necessary. <u>Overall spray application:</u> Apply 3 000 ℓ of the standard solution / ha as an overall high-volume application.
			See below for specific timing of application: A BUDDY 45 application at 3 000 ℓ of the standard solution / ha should be preceded 7-10 days earlier by an application of Ethephon 480 SL @ 1 ℓ /ha plus 50 ℓ UAN/ha. See Ethephon 480 SL label for full instructions
			Apply two applications of BUDDY 45 standard solution at 3 000ℓ /ha 7-10 days apart.
Plant crop - Winter months and Ratoon crop - Winter and summer months			

NOTES:

THINNING OF APPLES:

1. Experts' advice must be sought before using Buddy 45 for the first time to thin apples.
2. The reaction of apple trees to chemical fruit thinners is dependent on a variety of interacting factors such as cultivar, rootstock, age and shape of trees; the chemical rest-breaking programme; degree of flowering and fruit set; nutrition, the size of previous crop; the timing of applications, the use of other thinning agents and environmental conditions. The application of sound local knowledge is necessary if desired results are to be obtained.
3. Best results will be obtained when Buddy 45 is applied when daytime temperatures vary between 20°C and 27°C for the following 3 days. Higher temperatures may result in over-thinning or flagging of leaves. Do NOT apply if temperatures are expected to exceed 30°C
4. Cold weather of 15°C or less is unfavourable for fruit thinning.
5. The sequential use of Buddy 45 and carbaryl-containing formulations (e.g. Sevin XLR Plus) must not be used on Golden Delicious types in areas where retiform russetting is a problem.

FLOWER INDUCTION AND PROMOTION OF UNIFORM FRUITING IN PINEAPPLES

1. The application of BUDDY 45 should not precede natural flowering by more than a month. The optimum time for application varies according to latitude and variety. In the planted crop, this will normally be between 13 and 15 months after planting and in ratoon crops, 11 to 12 months after the previous crop was harvested. Application to immature plants or suckers will result in small fruit sizes.
2. Temperature extremes before application must be avoided. Ideal temperatures range between 15°C and 24°C and should never exceed 28°C.
3. Rapid growth following a cold winter season can reduce the normal efficacy of BUDDY 45 applications unless the above-mentioned guidelines are followed. Evening applications of BUDDY 45 can be considered during problem periods.
4. Do not exceed the prescribed rates of BUDDY 45 as fruit abnormalities can occur.