

SEE ENCLOSED LEAFLET FOR FULL DETAILS

BLADBUFF® 5

ZEMA Reg. No.

A water quality improving agent with wetting, spreading and acidifying qualities with a built in pH indicator for use with contact and systemic pesticides, fungicides, herbicides and foliar feeds.

Active ingredients:

WETTING AGENTS

SPREADING AGENTS

ACIDIFIER

pH INDICATOR

PENETRATING AGENTS 600 g/ℓ

Hazard Statement

H314 Causes severe skin burns and eye damage.

H413 May cause long lasting harmful effects to aquatic life

Precautionary Statements

P260 Do not breathe mist/ vapours/ spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell.

Manufacturer & Supplier:

Nulandis, a division of AECI LTD

14 Field Road, Lilianton, Boksburg, 1459,
South-Africa

Tel: +27 11 823 8000



Local Distributor:

ATS Agrochemicals Ltd.

Stand 3143, Mukwe Road, Lusaka,
Zambia

Tel: +260 1 246 724-6

BLADBUFF® 5 is a registered
trademark of AECI Limited
(Nulandis®, a division
of AECI Ltd)



Net Volume:

UN No. 1805 - Phosphoric Acid Solution

Batch No:

Manufacturing date:

Expiry Date:



WARNING



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ACTIVE INGREDIENTS

600 g/ℓ

WETTING AGENTS
SPREADING AGENTS
ACIDIFIER
pH INDICATOR
PENETRATING AGENTS

Manufacturer & Supplier:

Nulandis, a division of AECL LTD
14 Field Road, Lilianton, Boksburg, 1459,
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Tel: +27 11 823 8000

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UN No: 1805 – Phosphoric Acid Solution

BLADBUFF® 5 is an adjuvant containing a combination of non-ionic and anionic components and is suitable for ground and aerial applications.

BLADBUFF® 5

- reduces and buffers the pH of the spray solution.
- contains a unique pH indicator which turns the colour of the spray water pink upon reaching the optimum pH range of 4,5 - 5,0.
- has excellent wetting and spreading properties which improve pesticidal performance (especially herbicides) and reduce the possibility of phytotoxicity.
- improves cuticular penetration and uptake of systemic pesticides and foliar nutrient sprays.
- prevents rapid hydrolysis (degradation) of alkaline sensitive pesticides such as organophosphates, carbamates, synthetic pyrethroids and chlorinated hydrocarbons.
- improves the compatibility of emulsifiable concentrates with foliar nutrient products.
- neutralises certain dissolved salts and decreases the E.C. (Electrical Conductivity) of hard spray waters

WARNINGS:

- The addition of **BLADBUFF® 5** to spray mixtures containing certain copper fungicides, particularly oxychlorides, is not recommended, due to the possibility of phytotoxicity.
- **BLADBUFF® 5** is corrosive and should not be stored in metal containers.
- Keep out of reach of children, uninformed persons and animals and store away from food and feedstuffs.

ALTHOUGH THIS ADJUVANT 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 CLIMATIC AND STORAGE CONDITIONS; QUALITY OF DILUTION WATER, COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL 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 ADJUVANT CONCERNED DUE TO FAILURE OF THE USER TO FOLLOW THE LABEL INSTRUCTIONS OR THE OCCURRENCE OF CONDITIONS WHICH COULD NOT HAVE BEEN FORESEEN IN TERMS OF THE REGISTRATION. CONSULT THE SUPPLIER IN THE EVENT OF ANY UNCERTAINTY.

PRECAUTIONS:

Avoid prolonged contact with concentrate. Eye irritation may be caused. In case of contact with eyes, flush immediately with water for at least 15 minutes. Prevent contamination of eating utensils, food, drinking water and feeds. Rinse empty 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 content of the spray tank before disposing of the container. Destroy empty containers and do not use for any other purpose.

DIRECTIONS FOR USE:

- The pH and hardness of spray solutions may have a marked effect on the persistence and ultimate performance of contact and systemic, alkaline-sensitive pesticides and foliar applied nutrient products. Such pesticides and most foliar nutrients generally perform best at a pH ranging from 4,5 - 5,0.
- Always add **BLADBUFF® 5** to the spray water before adding the other components of the spray mix.
- **BLADBUFF® 5** contains a pH sensitive indicator, which changes the colour of spray water to a shade of pink when the optimum pH range of 4,5 - 5,0 has been reached.
- The determination of the exact amount of **BLADBUFF® 5** to be added to the spray water must always be established in an open container (jug, bucket, etc.) and not by observing the colour change in the dark confines of the spray tank itself.
- Soft water requires a low concentration of **BLADBUFF® 5** and turns pink rapidly upon reaching the desired pH. Hard water will require a higher concentration of **BLADBUFF® 5** and in this instance a gradual colour change from yellow to orange and finally a stable pink colour (pH 4,5 - 5,0) will be observed.
- In hard waters the addition of **BLADBUFF® 5** must be continued whilst agitating constantly until the colour change is observed.
- The following table merely serves as a general guideline regarding the quantity of **BLADBUFF® 5** required to adjust the pH of different waters to a level ranging from 4,5 - 5,0.

<i>Water Hardness Rating</i>	<i>Application Rate ml / 100 ℓ Water</i>
Soft	40 – 50
Medium	50 – 60
Medium Hard	100 – 120
Hard	180 – 200
Very Hard	220 and above