

# Betasana Trio

Providing the foundations for Sugar Beet success

8 January 2016





MAPP No 15551

BETASANA TRIO is a selective post-emergent herbicide for the control of annual weeds in sugar beet, fodder beet and mangels.

BETASANA TRIO combines three complementary active ingredients

**Ethofumesate** for

- Long lasting weed control
- Good activity against weeds, including black grass
- Mode of action different to other sugar beet actives
- Enhancing the contact activity of other herbicides

**Phenmedipham** for

- Effective contact action
- Safe at all stages of growth
- Proven reliability

**Desmedipham** for

- Rapid contact action
- Improved activity under difficult/cool conditions
- Improved efficacy against key weeds
- Aids ethofumesate to penetrate weeds

Beet crops are extremely sensitive and can easily be damaged by herbicides.

This can result in reduced yields and lower returns. BETASANA TRIO is proven to significantly reduce the threat of crop damage.

Using a specially formulated mixture of the three active ingredients above BETASANA TRIO provides the highest level of weed control with unparalleled crop safety.

**Product Profile**

<b>Brand</b>	BETASANA TRIO
<b>Active ingredient</b>	ethofumesate phenmedipham desmedipham
<b>Inclusion rate</b>	115 g/l + 75 g/l + 15 g/l
<b>Formulation</b>	Suspension Concentrate (SC)
<b>Crops</b>	Sugar beet, fodder beet and mangels
<b>Maximum individual dose</b>	2.5 l/ha
<b>Maximum total dose</b>	7.0 l/ha
<b>Latest timing of application</b>	BBCH18 (eight leaves unfolded)
<b>Pack size</b>	5 litres
<b>LERAP</b>	–
<b>Water volume</b>	100 - 300 l/ha

Treatment	Minimum Crop Stage / Recommended Dose (l/kg/ha)			
	Crop emergence	From fully expanded cotyledon	1st true leaves 1cm long*	From 2 true leaves expanded*
BETASANA TRIO	2.0	2.0	2.0	2.5
BETASANA TRIO + Bettix Flo	1.25 + 1.0	2.0 + 1.0	2.0 + 1.0	2.5 + 1.0
BETASANA TRIO + Bettix Flo + Safari Lite		1.0 + 0.5 + 140g		
BETASANA TRIO + Bettix Flo + Vivendi 200				2.0 + 1.0 + 0.5
BETASANA TRIO + Debut + Bettix Flo				2.5 + 20g + 0.5
BETASANA TRIO + Debut		1.0 + 30g	1.0 + 30g	2.0 + 30g
BETASANA TRIO + Debut + Bettix Flo + Venzar Flowable + Oil			2.0 + 20g + 0.5 + 0.4	2.5 + 20g + 0.5 + 0.4
BETASANA TRIO + Debut + Ethofol 500SC				1.5 + 20g + 0.2
BETASANA TRIO + Debut + Venzar Flo		0.75 + 10g + 0.2	2.0 + 10g + 0.4	2.5 + 20g + 0.4
BETASANA TRIO + Debut + Vivendi 200				2.0 + 20g + 0.5
BETASANA TRIO + Ethofol 500SC				1.5 + 0.3
BETASANA TRIO + Fiesta T	1.25 + 1.0	2.0 + 1.0		2.5 + 1.0
BETASANA TRIO + Oblix MT/Volcano				1.5 + 1.0
BETASANA TRIO + Safari Lite WSB		0.75 + 140g	2.0 + 140g	2.5 + 187g
BETASANA TRIO + Safari Lite WSB + Vivendi 200				2.5 + 187g + 0.5
BETASANA TRIO + Venzar Flowable	0.8 + 0.2	1.5 + 0.2	2.0 + 0.4	2.5 + 0.4
BETASANA TRIO + Venzar Flowable + Bettix Flo		0.75 + 0.2 + 1.0	1.0 + 0.2 + 1.0	2.0 + 0.4 + 1.0
BETASANA TRIO + Vivendi 200				2.5 + 0.5

**\* Add adjuvant Oil to the tank mix according to temperature where crops are healthy**

Maximum temperature (°C) on the day of spraying	Dose of oil (l/ha)
<b>Up to 14</b>	1.0
<b>14-18</b>	0.75
<b>18-21</b>	0.5
<b>Above 21</b>	No oil recommended

Always check the product label to confirm rates or contact your agronomist

Unless stated otherwise on product labels the order of adding the products to the spray solution when tank mixing is:

1. water soluble bags
2. water dispersible granules (or soluble granules)
3. wettable powders (or soluble powders)
4. emulsifiable concentrates (or oil in water emulsions)
5. adjuvants.

**Tank Mixes**

Please note that the following tank mixes have been tested for physical compatibility with BETASANA TRIO at recommended rates of use and will mix in the sprayer tank. Physical compatibilities may not be approved tank mixes. These tests have not been undertaken to check for any adverse crop phytotoxicity or for the biological efficacy of the individual products when applied as a tank mix. United Phosphorus Limited accepts no liability for physical compatibilities; therefore use is at grower's own risk.

BETASANA TRIO is physically compatible with **any one** of the following tank-mix partners:

Beetup Compact	Bettix Flo	Efeckt	Oblix 500SC	Venzar Flowable
Beetup Flo	Corzal SE	Ethofol 500SC	Oblix MT	Vivendi 200
Betanal Maxim	Debut	Ethosat 500	Rifle	Volcano
Betanal Turbo	Defiant SC	Fiesta T	Safari Lite WSB	
Betasana SC	Dow Shield 400	Goltix Flowable	Target SC	

For the latest information on tank mix recommendations, please visit our website at [www.uplsugarbeet.co.uk](http://www.uplsugarbeet.co.uk).

**Betasana Trio 1.5 l/ha – 2.0 l/ha**

From cotyledon to fully extended cotyledon of the crop and weeds.

**Betasana Trio 1.75l/ha – 2.0 l/ha + Adjuvant Oil**

Second and subsequent sprays from fully expanded cotyledon stage of the crop.

Add adjuvant oil e.g. Toil according to temperature



**Black bindweed**



**Cleavers**



**Fat-hen**



**Field pansy**



**Knotgrass**



**Mayweeds**



**Redshank**



**Volunteer OSR**

**Betasana Trio – a flexible tank mix partner**

In situations where robust treatments are required due to delayed spraying or difficult weeds, BETASANA TRIO is a safe, reliable and cost effective tank-mix partner.

**BETASANA TRIO 1.0 l/ha + Safari Lite 140g/ha + Bettix Flo 0.5l/ha\***

Can be used from the fully expanded cotyledon stage of the crop.

**BETASANA TRIO 2.0 l/ha + Debut 20g/ha + Bettix Flo 0.5 l/ha + Venzar Flowable 0.4l/ha\***

A two spray 'Broadacre' type programme can be used from 1st true leaves 1cm long of the crop.

\*Adjuvant oil e.g. Toil can be added from the 1st true leaves 1cm long stage of healthy crops.

## **Betasana Trio – Volunteer Potato and Thistle control**

BETASANA TRIO can safely be mixed with Vivendi 200 or Dow Shield 400 from the 2 true leaves expanded stage of the crop to control volunteer potatoes and thistles.



**Thistles**



**Volunteer potatoes**

For further information and guidance on a range of BETASANA TRIO supported tank mixes see the UPL website.

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