



SAFETY DATA SHEET

BETASANA TRIO®

Date of Issue: 11 September 2019

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): **Betasana Trio®**
Recommended use: **Herbicide.** Selective herbicide for controlling annual weeds in fodder beets, sugar beets and red beets.
Supplier: **UPL New Zealand.**
PO Box 51584
Pakuranga, Auckland
Phone 0800 100 325
Emergency telephone number: **0800 CHEM CALL (0800 243 622)**
24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: **6.4A – eye irritant**
6.9B - target organ toxicant
9.1A - aquatic toxicant
9.2B - soil toxicant
Required identification Details: **TOXICITY**
Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
May cause eye irritation. May cause target organ damage from repeated oral exposure at high doses.
ECOTOXIC
Very toxic to aquatic organisms.
Toxic to the soil environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:	Liquid	
Common name	CAS No	%
Ethofumesate	26225-79-6	115 g/L
Phenmedipham	13684-63-4	75 g/L
Desmedipham	13684-56-5	15 g/L

4. FIRST-AID MEASURES

Description of necessary first aid measures:

First-aid measures:	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.
Inhalation:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin contact:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Notes to a physician:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	2Z
Extinguishing media:	Water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream as it may scatter and spread fire.
Hazardous thermal (de)composition products:	Nitrogen oxides, carbon dioxide or carbon monoxide gases may form.
Protection of fire-fighters:	Full protective clothing and self-contained breathing apparatus. Keep up wind. Do not allow washings to reach sewage or effluent systems.
Specific methods:	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Other Information:	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Environmental precautions:	Prevent from entering drains, waterways or sewers.
-----------------------------------	--

Spills and Disposal:

This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Wear protective clothing. Clear area of unprotected personnel. Contain liquid spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

Personal Protection:

For appropriate personal protective equipment (PPE), refer Section 8.

7. HANDLING AND STORAGE**Safe Handling:**

Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.

BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Conditions for safe storage, including any incompatibilities:

Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of BETASANA TRIO require secondary containment and are subject to signage, and more than 100L require emergency response plans.

Other Information

Always read the label and any attached leaflet before use.

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Workplace Exposure Guidelines****Occupational exposure limits:**

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

Engineering measures**Appropriate engineering controls:**

Use in a well ventilated area only. Local exhaust ventilation may be required in confined spaces.

Personal Protective Equipment**Detail specifications for equipment:**

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck

General hygiene:

Do not eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Off white liquid.
Odour:	Strong.
Volatile Component:	
Specific Gravity:	1.01 @20°C
Vapour Pressure:	
Density:	
Oxidising Properties	Non oxidising
Solubility in water:	
Partition Coefficient: n-octanol/water:	
pH:	7.07
Flashpoint:	>104°C
Explosion Properties	According to chemical structure no explosion reaction is expected.
Flammable Limits:	Non-Flammable.
Other Information:	(SC) Suspension Concentrate

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of handling and storage.
Conditions to avoid:	Strong alkalis. Oxidising agents. Avoid temperatures above 30°C.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:	LD50(rat) = >2500 mg/kg for BETASANA TRIO.
Acute toxicity - Dermal:	LD50(rat) = >4000mg/kg for BETASANA TRIO.
Eye:	May cause eye irritation.
Skin Sensitisation:	Not a skin sensitiser.
Chronic Effects:	May cause target organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION

Bioaccumulation Potential:	Ethofumesate, Phenmedipham and Desmedipham are not bioaccumulative. Information given is based on product data.
Acute Toxicity – Fish:	LC50(96h) = 24mg/L for BETASANA TRIO
Acute Toxicity – Daphnia:	LC50 (48h) = 34 mg/L for BETASANA TRIO.
Acute Toxicity – Algae:	EC50 (72h) = 0.8mg/L for BETASANA TRIO.

13. DISPOSAL CONSIDERATIONS

Product disposal :	Dispose of product only by using according to the label, or at an approved landfill.
---------------------------	--

Container disposal:

Triple rinse empty container and add rinsate to spray tank.
Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. TRANSPORT INFORMATION - International transport regulations

It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

UN number:

3082

Transport hazard class:

9

Hazchem Code:

2Z

Packing Group:

III

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. - (Desmedipham, Phenmedipham,
Ethofumesate , mixture)

IERG Number :

47

IMO Marine Pollutant:

Yes. Environmentally Hazardous Substance mark required.

IMDG EMS:

F-A, S-F

Other Information:

Do not carry this product on a passenger service vehicle.
Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. REGULATORY INFORMATION**ACVM Registered Number:**

Registered pursuant to the ACVM Act 1997, No. P9208
See www.foodsafety.govt.nz for registration conditions.

HSNO Approval Code:

Approved pursuant to the HSNO Act 1996, Approval Code HSR101033.

See www.epa.govt.nz for approval controls.

Packaging & Labelling:

WARNING. KEEP OUT OF REACH OF CHILDREN

Hazard Rating Systems:

NFPA/HMIS: 1-1-1

16. OTHER INFORMATION**Additional information:**

IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE.
24Hr Toll free Emergency No: 0800 651 911.

Contact Person/Point:

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Recommended use of the chemical updated to include pre and post emergence use.

EXCLUSION OF LIABILITY: PLEASE READ

This Safety Data Sheet is based on the most recent information available. To the extent permitted by law, users of this information accept that neither the manufacturer, Etec Crop Solutions Limited as distributor, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these information.