

Safety Data Sheet




Terbo[®] FLO


Date of issue: 30th May, 2011

1) Identification of Substance:		
Product name:	Terbo Flo	
Active Ingredient(s):	350g/litre terbutryn + 150g/litre terbuthylazine	
ACVM Approval:	P8195	
ERMA Approval:	HSR100520	
Distributed by:	Adria Crop Protection P.O. Box 535 Kumeu 1250, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adriacp.co.nz	
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766	
2) Hazards Identification:		
HSNO Classifications:	6.1D, 6.7B, 6.9B, 9.1A, 9.2B, 9.3C	
Risk and safety phrases (EU):	<p>R22: Harmful if swallowed</p> <p>R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>S2 Keep out of the reach of children.</p> <p>S13 Keep away from food, drink and animal feeding stuffs.</p> <p>S20/21 When using do not eat, drink or smoke.</p> <p>S24/25 Avoid contact with skin and eyes.</p> <p>S36/37 Wear suitable protective clothing and gloves.</p> <p>S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p>S60 This material and its container must be disposed of as hazardous waste.</p> <p>S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.</p>	
3) Composition Details:		
Chemical identity:	Terbutryn + Terbutylazine	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Terbutryn	886-50-0	35
Terbuthylazine	5915-41-3	15
4) First Aid Measures:		
General Information:		
Skin contact:	Wash immediately with soap and water. Do not rub skin. May cause slight irritation. Seek medical attention if irritation persists.	

Eye contact:	Flush eyes immediately and continue for at least 15 minutes. May cause slight irritation. Seek medical assistance immediately should irritation persist.
Ingestion:	Do NOT induce vomiting if swallowed. May be harmful. A glass of water may be given. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or seek medical attention immediately.
Inhalation:	Remove to fresh air while keeping patient calm. Seek medical attention if irritation persists.
Further Information:	Treat according to symptoms (decontamination, vital functions), no known specific antidote.
5) Fire-Fighting Measures:	
Specific hazards:	Chloride compounds, nitrogen oxides and Sulphur oxides.
Extinguishing media and methods:	Water spray, water fog, carbon dioxide, foam, dry extinguishing media
Recommended protective clothing:	Wear SCBA and appropriate chemical-protective clothing.
6) Accidental Release Measures:	
Personal precautions:	Use protective clothing. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.
Environmental precautions:	Do not discharge into drains/surface waters/groundwater or into subsoil/soil.
Spill procedures:	Absorb spills with inert material and place in waste containers. Prevent material from entering waterways. Wash area with water and absorb with further inert material.
Disposal procedures:	Dispose of waste safely in appropriate containers, according to local Council regulations.
7) Handling & Storage:	
Handling:	Avoid skin and eye contact and inhalation of spray mist or fumes. Ensure adequate ventilation. Cleaning water should be disposed of in appropriate manner. Wash hands after handling the product and before breaks. Do not eat, drink or smoke during use. Wash contaminated clothing before re-use.
Storage:	Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage of Terbo Flo must be carried out in such a manner as to prevent contamination of waterways. Stores containing more than 100L of Terbo Flo require bunding and are subject to signage. Storage must generally be in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).

8) Exposure Control / Personal Protection:	
Engineering measures:	
Respiratory protection:	Wear respiratory protection if ventilation is inadequate. Use particle filter with medium efficiency for solid and liquid particles.
Eye protection:	Wear safety goggles with side-shields.
Hand protection:	Wear suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
Other protective equipment:	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
General Safety & Hygiene measures:	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use and wash hands and face before breaks and after work.
9) Physical & Chemical Properties:	
Form:	Liquid
Colour:	Cream
Odour:	Characteristic
Melting point/boiling point:	>100°C
Density:	1.09g/mL (approximately)
Surface tension:	-
pH:	7.7
Flash point:	N/A
Ignition Temperature:	N/A
Explosive Limits:	N/A
10) Stability & Reactivity:	
Conditions to avoid:	Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage
Materials to avoid:	Oxidising agents.
Hazardous reactions:	No decomposition if stored and handled as prescribed/indicated.
11) Toxicological Information:	
Acute oral toxicity:	Terbutryn: Acute oral LD ₅₀ for rats 2500, mice 500 mg/kg. Terbuthylazine: Acute oral LD ₅₀ for rats 1590–>2000 mg/kg.
Acute inhalation toxicity:	Terbutryn: LC ₅₀ (4 h) for rats >2200 mg/m ³ air. Terbuthylazine: LC ₅₀ (4 h) for rats >5.3 mg/l air.
Acute dermal toxicity:	Terbutryn: Acute percutaneous LD ₅₀ for rats >2000, rabbits >20 000 mg/kg Terbuthylazine: Acute percutaneous LD ₅₀ for rats >2000 mg/kg.
Skin irritation:	Terbutryn: Not an irritant Terbuthylazine Not an irritant
Eye irritation:	Terbutryn: Not an irritant Terbuthylazine: Not an irritant

Sensitisation:	Terbutryn: Not a sensitiser Terbuthylazine: Not a sensitiser
12) Ecological Information:	
Acute fish toxicity:	Terbutryn: LC ₅₀ (96 h) for rainbow trout 1.1, bluegill sunfish 1.3, carp 1.4 mg/l. Terbuthylazine: LC ₅₀ (96 h) for rainbow trout 3.8–4.6, bluegill sunfish 7.5, carp and catfish 7.0 mg/l.
Toxicity for daphnia:	Terbutryn: LC ₅₀ (48 h) 2.66 mg/l. Terbuthylazine: LC ₅₀ (48 h) 21–50.9 mg/l.
Toxicity to algae:	Terbutryn: EC ₅₀ (7 d) for <i>Selenastrum capricornutum</i> 0.013 mg/l. Terbuthylazine: EC ₅₀ (72 h) for <i>Scenedesmus subspicatus</i> 0.016–0.024 mg/l
13) Disposal Considerations:	
Disposal: 	When emptying container, triple rinse and add remaining material to spray tank. Return the empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contaminating any water supply with the chemical or empty container.
14) Transportation Information:	
Rail/road (RID/ADR):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTRYN 35% / TERBUTHYLAZINE 15%) Class 9 Packing group III UN No.: 3082 
Sea (IMDG code):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTRYN 35% / TERBUTHYLAZINE 15%) Class 9 Packing group III UN No.: 3082 

Air (ICAO/IATA):	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTRYN 35% / TERBUTHYLAZINE 15%) Class 9 Packing group III UN No.: 3082</p> 
15) Regulatory Information:	
Approved handlers:	This product must be under the care of an approved handler during wide dispersive use.
ACVM controls:	See www.nzfsa.govt.nz/acvm/ for registration conditions.