

# **Safety Data Sheet**

## Invado®

1) Identification of Subst	) Identification of Substance:	
Product name:	Invado	
Active Ingredient(s):	400g/litre flufenacet	
ACVM Approval:	P9277	
EPA Approval:	HSR101106	
Distributed by:	Adria Crop Protection	
	P.O. Box 535, Kumeu 0841,	
	Auckland	
	Ph: 09-412-9817	
	Fax: 09-412-9807	
	<u>www.adria.nz</u>	
Emergency Number:	0800 734 607 (24hr)3	
National Poisons and	, ,	
Hazchem Information Centre	0800 POISON (0800 764 766)	

### 2) Hazards Identification:







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HSNO Classifications:	6.1D (All), 6.1D (O), 6.5B, 6.9B (All), 6.9B (O), 9.1A (All), 9.1A (M), 9.2A, 9.3C
Signal Word:	Warning
Hazard Statement Codes:	
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H371/H373	May cause damage to organs through single, prolonged or
	repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H421	Very toxic to the soil environment.
H433	Harmful to terrestrial vertebrates.
Prevention Statement Codes.	
P102	Keep out of reach of children.
P103	Read label before use.

P264	Wash body thoroughly after h	nandling.
P270	Don't eat, drink or smoke when using this product.	
P260/P261	Avoid breathing fume, mist and spray.	
P272	Contaminated work clothing should not be allowed out of	
	the workplace.	
P280	Wear protective gloves, protective clothing, eye protection	
	and face protection.	
P273	Avoid release to the environm	nent.
Response Statement Codes:		
P101	If medical advice is needed, h	nave product container or
	label at hand.	
P301 + P312	IF SWALLOWED: Call a pois	on centre or doctor/physician
	if you feel unwell.	
P330	Rinse mouth.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
	IF IN EYES: Rinse cautiously	y with water for several
P305+P351+P338	minutes. Remove contact lenses, if present and easy to	
	do. Continue rinsing.	
	If skin irritation or rash occurs: Get medical	
P333 + P313	advice/attention.	
	Wash contaminated clothing	before re-use.
P363	If exposed or you feel unwell: Call a POISON CENTRE or	
P309 + P311/P314	doctor/physician.	
P391	Collect spillage.	
	o and at ap mager	
Storage Statement Codes:		
P405	Store locked up.	
3) Composition Details:	Otoro looked up.	
Chemical identity:	Flufenacet	
Chemical identity of	FluiendCet	
ingredients:	CAC No.	Contant (0//.)
Ingredient: Flufenacet	CAS No.: 142459-58-3	Content (%w/v) 40%
Other ingredients determined	2 100 00 0	Up to 100%
not to be hazardous.		

Conoral Informations	
General Information:	After contact with aking weak impropriately with coop and
Skin contact:	After contact with skin, wash immediately with soap and water.
Eye contact:	IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
Ingestion:	If swallowed do NOT induce vomiting. For advice, contact
	the National Poisons Centre on 0800 POISON (0800
	764766) or a doctor immediately.
Inhalation:	Keep patient calm. Remove to fresh air and seek medical attention.
Further Information:	Treatment: Treat according to symptoms (decontamination,
	vital functions).
5) Fire-Fighting Measure	es:
Specific hazards:	Carbon and nitrogen oxides.
Extinguishing media and methods:	Dry chemical, water spray, foam, carbon dioxide.
Recommended protective clothing:	Wear SCBA and chemical-protective clothing.
Hazchem Code:	3Z
6) Accidental Release M	leasures:
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.
	Do not discharge into the subsoil/soil.
Spill procedures:	Wear appropriate protective clothing and prevent material
	from entering waterways. Absorb spills with inert material
	and place in waste containers. Wash area with water and
Diamaga la maga di maga	absorb with further inert material.
Disposal procedures:	Dispose of waste safely, according to local Council
7) Handling 9 Starage	regulations.
7) Handling & Storage:	
Handling:	Avoid contact with skin and eyes. Ventilation required.
	Keep away from heat sources and direct sunlight.
Storage:	Keep away from heat and protect from sunlight. Protect
	against freezing.
	Stores containing more than 100L are subject to
	requirement of an emergency management response plan,
	secondary containment and signage.
8) Exposure Control / P	ersonal Protection:
Engineering measures:	
Respiratory protection:	Wear respiratory protection if ventilation is inadequate.
	Particle filter with medium efficiency for solid and liquid
	particles.
Eye protection:	Safety goggles with side-shields.

Hand protection:	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	Keep away from food, drink and animal feedstuffs. No		
measures:	eating, drinking or smoking during use. Wash hands and		
	face before breaks and after work.		
9) Physical & Chemical F	) Physical & Chemical Properties:		
Form:	Suspension Concentrate		
Colour:	White liquid		
Odour:	Slight chemical odour		
Melting point/boiling point:	Not available		
Specific gravity:	1.146		
Surface tension:	Not available		
pH:	6.0 - 9.0		
Flash point:	Not applicable		
Ignition Temperature:	Not auto-flammable		
Explosive Limits:	Not explosive		
10) Stability & Reactivity	<del>_</del>		
Conditions to avoid:	Temperature extremes		
Materials to avoid:	Oxidizing agents, acids and alkali.		
Hazardous reactions:	None known at time of publishing		
11) Toxicological Information:			
Acute oral toxicity (based on active ingredient):	LD <sub>50</sub> rat > 1,300 mg/kg.		
Acute inhalation toxicity	$LD_{50}$ (4h) rat > 3.12 mg/ $\ell$ .		
(based on active ingredient):	300		
Acute dermal toxicity (based	LD <sub>50</sub> rat > 5,000 mg/kg.		
on active ingredient):	== 55 . sat x = 5,000gg.		
Skin irritation:	No irritation, rabbit.		
Eye irritation:	Irritant, rabbit.		
Sensitisation:	Weak dermal sensitiser (guinea pig).		
12) Ecological Information	on:		
Acute fish toxicity:	LC <sub>50</sub> (Bluegill sunfish): 2.4ppm		
<b>_</b>	LC <sub>50</sub> (Rainbow trout): 3.49ppm		
Toxicity for daphnia magna:	EC <sub>50</sub> : 30.9ppm		
13) Disposal Considerati			
Disposal:	Triple rinse container and add residue to		
	spray tank. Return empty container to an		
	AgRecovery collection point for disposal.		
AGRECOVERY			
The state of the s	VERY TOXIC TO AQUATIC ORGANISMS.		
Empty container precautions:	Avoid contamination of any water supply		
	with chemical or empty container.		
	with offermoal of empty container.		

#### 14) Transportation Information:



Rail/road (RID/ADR):	ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE (FLUFENACET), LIQUID,
Sea (IMDG code):	N.O.S.
	Class 9, UN: 3082,
Air (ICAO/IATA):	Packing Group III, Hazchem 3Z

#### **15) Regulatory Information:**

Certified Handlers:	Not required.
Tracking:	Not required but a record should be kept of use and disposal.
ACVM controls:	See <u>www.foodsafety.govt.nz</u> for registration conditions.

#### 16) Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the product's properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed