

Material Safety Data Sheet





Bestseller[®] 100EC



Date of issue: 30th May, 2009

1) Identification of Substance:	
Product name:	Bestseller 100EC
Active Ingredient(s):	Alpha-Cypermethrin 100 g/L EC
ACVM Approval:	P7213
ERMA Approval:	HSR00292
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:	3.1C, 6.1D, 6.3B, 6.4A, 6.9B, 9.1A, 9.3B, 9.4A
Risk and safety phrases:	Harmful by inhalation and if swallowed. Irritating to respiratory system. Risk of serious damage to eyes. Harmful : danger of serious damage to health by prolonged exposure if swallowed. Harmful : may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
Dangerous Product	Flammable. May form flammable vapour-air mixture.
Environmental hazard	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Primary route of exposure	Vapours inhalation. Skin contact.
Symptoms relating to use:	
Inhalation	Cough. Headache. Breathing difficulties. Dizziness. Unconsciousness.
Skin contact	Redness, pain. Burning sensation. Repeated dermal contact with material can lead to defatting of the skin.
Eye contact	Redness, pain. Blurred vision. Burning sensation. Risk of serious damage to eyes.
Ingestion	Abdominal pain, nausea. Harmful : danger of serious damage to health by prolonged exposure if swallowed. Harmful : may cause lung damage if swallowed.

3) Composition Details:		
Chemical identity:		Alpha-cypermethrin
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Alpha-cypermethrin	67375-30-8	10-15%
4) First Aid Measures:		
General Information:		
Skin contact:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Remove contaminated clothing and shoes. Seek medical attention if ill effect or irritation develops.	
Eye contact:	Check for and remove any contact lenses. In case of eye contact, immediately rinse with clean water for 10-15 minutes. Contact ophthalmologist immediately.	
Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). DO NOT INDUCE VOMITING. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.	
Inhalation:	Assure fresh air breathing. Place the victim in semi-seated position. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.	
Further Information:	Treatment: Treat according to symptoms (decontamination, vital functions). No known specific antidote.	
5) Fire-Fighting Measures:		
Specific hazards:	May form flammable vapour-air mixture. Carbon monoxide. Hydrogen chloride. Nitrogen oxides. Carbon dioxide.	
Extinguishing media and methods:	Dry chemical. Water. Carbon dioxide. Foam.	
Recommended protective clothing:	Do not enter fire area without proper protective equipment, including respiratory protection.	
6) Accidental Release Measures:		
Personal precautions:	No smoking. Keep public away from danger area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.	
Environmental precautions:	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.	
Spill procedures:	Clean up any spills as soon as possible, using an absorbent material to collect it.	
Disposal procedures:	Dispose of waste safely, according to local Council regulations.	

7) Handling & Storage:	
General	Keep away from sources of ignition - No Smoking. Do not breathe vapours.
Precautions in handling and storage	Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures. May form flammable/explosive vapour-air mixture.
Technical Protective Measures:	Use grounded electrical/mechanical equipment.
Handling:	Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Storage:	Keep in fireproof place. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.
8) Exposure Control / Personal Protection:	
Industrial hygiene:	Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.
Respiratory protection:	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles.
Eye protection:	Chemical goggles or face shield with safety glasses.
Hand protection:	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
Skin Protection:	If skin contact or contamination of clothing is likely, protective clothing should be worn.
General Safety & Hygiene measures:	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.
Occupational Exposure Limits:	Hydrocarbon-solvents (Aromatic) : TLV [©] - TWA [mg/m ³] : 100 - 150 Hydrocarbon-solvents (Aromatic) : TLV [©] - TWA [ppm] : 19 - 25
9) Physical & Chemical Properties:	
Form:	Liquid
Colour:	Slightly Yellow
Odour:	Solvent
Melting point/boiling point:	-
Density:	0.91
Surface tension:	30.6 (25°C)
pH:	5.5 -6.5
Flash point [°C]:	39
Ignition Temperature: [°C]:	459 +/- 5
Explosive Limits:	N/A
Viscosity:	1.198 mm ² /s (40°C)
Solubility in water	Emulsion.

10) Stability & Reactivity:	
Stability and reactivity	Stable.
Hazardous decomposition products	According to process conditions, hazardous decomposition products may be generated. Thermal decomposition generates : Carbon monoxide. Hydrogen chloride. Nitrogen oxides. Carbon dioxide.
Materials to avoid:	Strong oxidizers. Strong alkalis. Strong bases
Hazardous reactions:	May release flammable gases.
Conditions to avoid	Open flame. Sparks. Overheating.
11) Toxicological Information:	
Acute oral toxicity:	> 310 mg/kg (rat)
Acute inhalation toxicity:	1.35mg/l/4h
Acute dermal toxicity:	> 2,000 mg/kg
12) Ecological Information:	
Acute fish toxicity:	LC50 (50-96 h) <1
Toxicity for daphnia:	LC50 (48 h) <1
Toxicity to algae:	-
13) Disposal Considerations:	
Disposal: 	Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.
14) Transportation Information:	
Rail/road (RID/ADR):	UN3351 PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (ALPHA-CYPERMETHRIN, 10% HYDROCARBON-SOLVENTS (AROMATIC)) Class 6.1 Packing group III UN: 3351   

Sea (IMDG code):	<p>UN3351 PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (ALPHA-CYPERMETHRIN, 10% HYDROCARBON-SOLVENTS (AROMATIC)) Class 6.1 Packing group III UN: 3351 Marine Pollutant</p> 
Air (ICAO/IATA):	<p>UN3351 PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (ALPHA-CYPERMETHRIN, 10% HYDROCARBON-SOLVENTS (AROMATIC)) Class 6.1 Packing group III UN: 3351 Packing Instructions: 611/60L – 618/220L</p> 
15) Regulatory Information:	
Approved handlers:	This product must be under the care of an approved handler during use.
Tracking:	Yes.
ACVM controls:	See www.nzfsa.govt.nz/acvm/ for registration conditions.