


Safety Data Sheet

Spiral® 500EC




22nd February, 2017

1) Identification of Substance:		
Product name:	Spiral 500EC	
Active Ingredient(s):	500g/litre spiroxamine	
ACVM Approval:	P8524	
EPA Approval Code:	HSR007652	
Distributed by:	Adria Crop Protection P.O. Box 535, Kumeu 0841, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adria.nz	
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766	
2) Hazards Identification:		
HSNO Classifications:	6.1D, 6.3A, 6.5B, 6.9A, 8.3A, 9.1A, 9.3C	
Risk and safety phrases:	May be harmful if swallowed, inhaled or absorbed through the skin. Harmful – may cause skin irritation. Harmful – may cause sensitisation from prolonged skin contact. Toxic – may cause target organ damage from repeated oral exposure at high doses. Toxic – may cause eye damage. Toxic to fish with long-lasting effects. Harmful to terrestrial vertebrates.	
3) Composition Details:		
Chemical identity:	Spiroxamine	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (w/v)
Spiroxamine	118134-30-8	500 g/L
4) First Aid Measures:		
General Information:		
Skin contact:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Seek medical attention immediately.	
Eye contact:	Flush eyes immediately and continue for at least 15 minutes. Seek medical attention.	
Ingestion:	Do NOT induce vomiting if swallowed. Seek medical attention immediately. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766).	

Inhalation:	Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance soon if irritation persists.
Treatment:	Treat symptomatically. Gastric lavage, then charcoal (carbo medicalis) and sodium sulphate.
5) Fire-Fighting Measures:	
Specific hazards:	In the event of fire, the following can be released: Hydrogen cyanide (hydrocyanic acid) Carbon monoxide (CO) Nitrous gases (NOx)
HAZCHEM Code:	3[Z]
Extinguishing media and methods:	Extinguish warehouse and factory fires using dry chemical extinguisher, alcohol-resistant foam, carbon dioxide.
Recommended protective clothing:	Wear SCBA and chemical-protective clothing.
6) Accidental Release Measures:	
Personal precautions:	Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Wash contaminated clothing before re-use.
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 absorb with further inert material.
Disposal procedures:	Dispose of waste safely, according to local Council regulations.
7) Handling & Storage:	
Handling:	Use protective clothing. Ensure adequate ventilation. Cleaning water should be disposed of in appropriate manner.
Storage:	Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds. Protect from extreme temperatures. Keep out of reach of children.
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:	Avoid contact with skin and eyes and inhalation of dust from concentrate or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.
9) Physical & Chemical Properties:	
Form:	Liquid
Colour:	Brown
Odour:	Characteristic
Melting point/boiling point:	NA
Density:	1.020
Surface tension:	NA
pH:	9.4
Flash point:	108 °C
Ignition Temperature:	NA
Explosive Limits:	NA
10) Stability & Reactivity:	
Conditions to avoid:	Heat and light.
Materials to avoid:	None known.
Hazardous reactions:	None known.
11) Toxicological Information:	
Acute oral toxicity:	LD ₅₀ rat: 200 to 1,000 mg/kg
Acute inhalation toxicity:	LC ₅₀ rat: 2.3 mg/L, aerosol (4 h)
Acute dermal toxicity:	LD ₅₀ rat: ≥ 2,000 mg/kg
Skin irritation:	Irritating (rabbit)
Eye irritation:	May damage eyes.
Sensitisation:	The product was not a skin sensitiser in the guinea pig by the Beuhler method, although the active ingredient, spiroxamine, was a skin sensitiser in tests with guinea pigs.
12) Ecological Information:	
Acute fish toxicity:	LC ₅₀ : 11.5 mg/L (96 h); trout (<i>Oncorhynchus mykiss</i>)
Toxicity for daphnia:	EC ₅₀ : 10.3 mg/L (48 h); water flea (<i>Daphnia magna</i>)
Toxicity to algae:	Growth rate EC ₅₀ : 0.029 mg/L (72 h); green algae (<i>Desmodesmus subspicatus</i>)
13) Disposal Considerations:	
Disposal: 	Triple rinse packaging and add residue to spray tank. Take empty container to an AgRecovery depot for disposal.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.

14) Transportation Information:

Rail/road (RID/ADR):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE SOLUTION) Class 9 Packing group III UN: 3082 
Sea (IMDG code):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE SOLUTION) Class 9 Packing group III UN: 3082 
Air (ICAO/IATA):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE SOLUTION) Class 9 Packing group III UN: 3082 

15) Regulatory Information:

Approved handlers:	Yes.
Tracking:	No.
ACVM controls:	See www.foodsafety.govt.nz 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.