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Infosafe No™ 3NU1W

Issue Date : April 2020

ISSUED by NUFARM

Product Name Astound Duo Insecticide

Classified as hazardous

1. Identification						
GHS Product	Astound Duo Insecticide					
Identifier Product Code	1710					
Product Type	Group 3A Insecticide					
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)					
Address	103-105 Pipe Road Laverton North					
Telephone/Fax	Victoria 3026 Australia Tel: +61 3 9282-1000					
Number Emergency phone number	1800 033 498 (24hr Australia)					
Email	sdsanz@nufarm.com					
Recommended use of the chemical and restrictions on use	For the control of certain insect pests on various crops and redlegged earth mite and blue oat mite on certain field crops and pastures as indicated in the Directions for Use table on the label.					
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.					
2. Hazard Identifi	cation					
GHS classification of the substance/mixture	Flammable Liquids: Category 4 Acute Toxicity - Oral: Category 3 STOT Single Exposure Category 3 (respiratory tract irritation)					
	STOT Single Exposure Category 3 (narcotic) STOT Repeated Exposure Category 2 Eye Damage/Irritation: Category 1 Carcinogenicity: Category 2 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1					
Signal Word (s)	DANGER					
Hazard Statement (s)	Combustible liquid. Harmful if swallowed. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. Suspected of causing cancer. Repeated exposure may cause skin dryness or cracking Very toxic to aquatic life with long lasting effects.					
General Precautionary Statement (s)	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.					
Pictogram (s)	Corrosion, Exclamation mark, Health hazard, Skull and crossbones, Environment,					
Precautionary statement – Prevention	Wash hands and exposed skin hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe mist or spray. Wear protective gloves, clothing, eye and face protection. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.					
Precautionary statement – Response	IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
	Call a POISON CENTER or doctor/physician if you feel unwell.					
Print Date: 24/04/2020	CS: 1.7.2					



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Other Information	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Poisons Schedule S6					
3. Composition/int	formation on ingredients					
Chemical Characterization	Liquid					
Ingredients	Name CAS Proportion					
	Liquid Hydrocarbons 64742-94-5 742 g/L Alpha Cypermethrin 67375-30-8 100 g/L Surfactant 0-10 %					
4. First-aid measu	res					
Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or					
Ingestion	persist, seek medical advice. Rinse mouth thoroughly with water. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by					
Skin	careful placement of the patient. Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.					
Eye contact	If irritation persists, seek medical advice. If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.					
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre					
Advice to Doctor	<pre>(Australia) on 13 11 26. Treat symptomatically. In cases of skin contact, application of Vitamin E cream has been found to have very high therapeutic value.</pre>					
5. Fire-fighting mo	easures					
Suitable extinguishing media Hazards from Combustion Products Special Protective Equipment for fire	<pre>Water fog, foam, carbon dioxide or dry chemical. Avoid using large volumes of water which would spread the product. Although material is not flammable, the concentrate is combustible. If involved in a fire, it will emit carbon monoxide and possibly hydrogen chloride. Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.</pre>					
fighters Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.					
6. Accidental relea	ise measures					
Spills & Disposal Clean-up Methods - Large Spillages	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable. Place damaged containers in recovery bins (if available) and return to manufacturer.					
7. Handling and st	torage					
Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.					
Conditions for safe storage, including any incompatabilities Other Information	Do NOT spray in high winds. Store in the closed, original container in a dry, well ventilated area out of direct sunlight. s Do not store below 4 °C. Always read the label and any attached leaflet before use.					



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Occupational	No biological exposure limit allocated.					
exposure limit values	No exposure standards have been set for this product or the active					
	ingredients.					
	The manufacturer of the solvent has recommended an occupational exposure					
	limit of 100 mg/m3; 17ppm TWA, as total hydrocarbon.					
Appropriate	Handle in well ventilated areas, generally natural ventilation is adequate.					
engineering controls						
Respiratory	Do not inhale spray mist.					
Protection						
Personal Protective	When opening the container, preparing spray and using the prepared spray wear					
Equipment	cotton overalls buttoned to the neck and wrist and a washable hat,					
1 1	elbow-length PVC gloves and face shield or goggles.					
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face					
•0	thoroughly with soap and water.					
	After each day's use, wash contaminated clothing and safety equipment.					

9. Physical and chemical properties

Form	Liquid				
Appearance	Clear straw coloured liquid.				
Odour	Aromatic Odour.				
Boiling Point	184°C				
Solubility in Water	Not soluble.				
Specific Gravity	0.92 @20°C				
рН	4.5 - 5.5				
Volatile Component	>60% by volume				
Flash Point	62°C				
Flammability	Combustible Liquid (GHS). Combustible liquid C1. (does not sustain				
Kinematic Viscosity	combustion) AS1940. >27 x10-6 m2/sec				

10. Stability and reactivity

Chemical Stability	ity Do not store below 4°C.			
·	The product crystallises at low temperatures.			
Possibility of	Keep away from strong oxidising agents.			
hazardous reactions				
Hazardous	Hazardous polymerisation is not possible.			
Polymerization				

11. Toxicological Information

LD50 (rat) 57 mg/kg for alpha-cypermethrin technical				
LD50 (rat) >2000 mg/kg for alpha-cypermethrin				
LD50 (rabbit) >2000 mg/kg for alpha-cypermethrin				
LC50 (rat) (4hr) >0.593 mg/l				
The concentrate is harmful if swallowed.				
Ingestion of alpha-cypermethrin in relatively large amounts can result in				
headache, nausea, lethargy, motor weakness and incoordination.				
May cause irritation to the respiratory tract. Breathing vapour can result in headaches, dizziness and possible nausea. Breathing in high concentrations of vapour can produce central nervous system depression, which can lead to loss of coordination, impaired judgement				
and if exposure is prolonged, unconsciousness.				
May irritate the skin. Exposure to alpha-cypermethrin can result in sensations of tingling especially in the face. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in reducing discomfort.				



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Eye	The occurrence of 'facial sensations' is an indication of exposure. Under these circumstances work practices should be reviewed. The concentrate may cause irritation of the eyes.					
Chronic Effects	Repeated exposure could result in peripheral nervous system damage.					
Serious eye damage/irritation Skin corrosion/irritation	Mild eye : Mild skin	irritant.				
Other Information The Australian Acceptable Daily Intake (ADI) for alpha-cype human is 0.05 mg/kg/day, set for the public for daily, life is based on the NOEL of 4.7 mg/kg/day, the level determined during long term exposure for the most sensitive indicators sensitive species. (Ref: Comm. Dept. of Health and Ageing, Safety, 'ADI List', June 2014).					lifetime exposure. This ned to show no effects tors and the most	
12. Ecological info	ormation					
Persistence and degradability	Average f	ield half	life of al	pha-cypermeth	rin is 90 days	· .
Known Harmful Effects on the Environment	IarmfulAlpha-cypermethrin products do not appear to pose any threat to birds.The product is a marine pollutant for sea transport.The product is a marine pollutant for sea transport.					reat to birds.
Acute Toxicity - Fish Acute Toxicity -	The following is data for the active ingredient, alpha-cypermethrin. Toxic to fish. LC50 (96hr) for rainbow trout is 0.0028 mg/l. LC50 (48hr) for alpha-cypermethrin is 0.0003 mg/l.					
Daphnia Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for mallard duck is >10,000 mg/kg Bees: Toxic to bees. LD50 0.059 µg/bee. Should not be applied while bees are actively foraging.					5 5
13. Disposal consid	derations					
Product Disposal	On site d Ideally need to d collection	, the prod ispose of ns of unwa	luct should the produc .nted chemi	be used for t, approach l cals (ChemCle	ocal authoriti ar®).	eptable. Durpose. If there is a les who hold periodic
Container Disposal	drumMUS' empty, cla chemical of symbol, t: container Triple of rinsings If recy designated If not appropriat If no la pit specia desirable Empty co Returnal Replace ca storage.	TER is the eaned, non containers riple rins for colle or prefera to the spr cling, rep d collecti recycling, te disposa andfill is fically ma vegetatic ontainers ble contai ap, close	a national returnabl I f the l the the cont otion in t bly pressu ay tank. clace cap a on point. break, cr l at an ap available rked and s an and tree and produc ners: empt	e crop produc abel on your ainer, ring y he program. The rinse cont and return cle Thush or punctu proved waste to bury the co et up for this roots. The should not y contents fur and return t	he collection tion and on-fa container carr our local Cour ainers before an containers re and deliver management fac ntainers below s purpose clea be burnt. lly into appli	and recycling of arm animal health ries the drumMUSTER hcil, and offer the disposal. Add to recycler or r empty packaging for cility. v 500mm in a disposal ar of waterways, cation equipment. E supply for refill or
14. Transport info	ormation					
Storage and Transport	ge and Considered non dangerous for road and rail transport (in packaging, includ					ode for the Transport
UN Number (Sea	For bul: 3082	k shipment	s as Class.	9, use UN 30	82, HazChem cc	ode 2Z.

Transport)



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IMO Class/Packing	Class 9; Packing Group III					
Group IMO Marine Pollutant	Marine Pollutant					
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Alpha-cypermethrin)					
15. Regulatory inf	Formation					
Poisons Schedule	S6					
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING					
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 53039.					
16. Other Informa	ation					
Date of preparation or last revision of SDS	Revised 24/04/2020 This SDS replaces document dated April 2015.					
Contact Person/Point	Normal Hours: SDS Coordinator Phone: +61 3 9282 1000 Email : SDSANZ@nufarm.com					
Revisions Highlighted	The SDS was reviewed. Minor changes were made to the	information.				
	End Of MSDS					
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