Page: 1 of 5

Infosafe No.

3NU6H Issu

Issue Date : June 2007

ISSUED by CRPCARE

Product Name : AMINE 625 Selective Herbicide

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	AMINE 625 Selective Herbicide
Product Code	0047
Product Type	Group I Herbicide
Company Name	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address	Unit 15/16 Metroplex Avenue Murarrie Queensland 4172 Australia
Emergency Tel.	1800 033 498 (24hr Australia)
Telephone/Fax Number	Tel: +61 7 3909 2000 Fax: +61 7 3909 2010
Recommended Use	For the control of broadleaved weeds in fallow before direct drilling or sowing of cereal crops and pastures; and in cereal crops, pastures, sugar cane, peanuts and non-agricultural areas as per the Directions of Use table on the label.
Other Information	This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
Safety Phrase(s)	S13 Keep away from food, drink and animal feeding stuffs. S2 Keep out of reach of children.
Other Information	Poisons Schedule S5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	Liquid		
Characterization	Nama	CAS	Proportion
Ingredients	Name	<u>CAS</u>	<u>Proportion</u>
	2,4-D present as dimethylamine and diethanolamine salts		625 g/L
	Water		380 g/L
Substance Chemical Family	Aryloxyalkanoic acid.		

4. FIRST AID MEASURES

Inhalation	If symptoms develop or persist, seek medical advice. Remove affected person to fresh air until recovered.
Ingestion	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. Give a glass of 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 careful placement of the patient. The above first aid instructions are mandated by the Commonwealth Department of Health and Ageing via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 1 tablespoon) AND if medical assistance is more
	than 30 minutes away, the induction of vomiting should be CONSIDERED,

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Infosafe No.	3NU6H Issue Date : June 2007	ISSUED by CRPCAR	
Product Name :	AMINE 625 Selective Herbicide		
	preferably based on MEDICAL ADVICE if a physician can b All care must be taken to prevent vomit from being inha anything by mouth to a semi-conscious or unconscious pe	led. Do not give	
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water. Remove contaminated clothing and launder before re-use.		
Eye	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice if irritation develops or persists.		
Advice to Doctor	Treat symptomatically. No specific antidote.		
5. FIRE FIGHTI	NG MEASURES		
Suitable Extinguishing Media	If involved in a fire, the product will not burn. Choo to suit the burning material. None required but use water spray to cool containers or by fire.		
Hazards from Combustion Products	Non-combustible. May emit toxic fumes of hydrogen chloride or phosgene i exposed to extreme heat.	f involved in fires or	
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if materia especially in confined spaces.	l is involved in fires	
Other Information	Hazchem code has not been assigned. Prevent fire water from entering drains or water bodies.		
6. ACCIDENTAL	RELEASE MEASURES		
Spills & Disposal	Contain spill and absorb with clay, sand, soil or propr as vermiculite). Collect in sealed open top containers for disposal. On-site disposal of concentrate is not acceptable. Dispose of at a landfill in accordance with local regul	-	
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.		
Clean-up Methods - Large Spillages Environmental Precautions	Place damaged containers in recovery bins (if available manufacturer. This product is a herbicide and spills can damage crops desirable vegetation. Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent sprea	, pastures and	
7. HANDLING A	ND STORAGE		
Precautions for Safe Handling	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any othe pesticide or used containers. No special precautions are necessary when handling seal For personal protective equipment (PPE) and hygiene adv	ed containers.	
Conditions for Safe Storage	Store in the closed, original container in a cool, well Do not store near oxidisers. Keep container tightly sealed and do not store with see foodstuffs.	ventilated area.	
Other Information	Equipment that has been used for this chemical should n application of other materials to sensitive plants, unl washed out with hot soapy water or 1% solution of ammon clear water rinses. Do not use on or in situations where damage to suscepti such as cotton, tobacco, tomatoes, flowers, vines, frui susceptible crop plants may result from direct applicat Always read the label and any attached leaflet before u	ess it has been well ia, followed by severa ble crops or plants t trees or other ion or drift.	

Page: 3 of 5

Infosafe No. 3NU6H Issue Date : June 2007 ISSUED by CRPCARE

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National Exposure Standards	No exposure standard for this product has been set, however, an exposure standard has been set for 2,4-D acid at 10 mg/m3.
Engineering Controls	Natural ventilation is sufficient when handling concentrate and preparing spray solution.
Respiratory Protection	Do not inhale spray mist.
Personal Protective Equipment	When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray, wear face shield.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face 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, red-brown liquid with ammoniacal odour.
Melting Point	<0°C
Boiling Point	>100°C (for water)
Solubility in Water	Soluble in water.
Specific Gravity	1.254
pH Value	8.5 - 9.5
Vapour Pressure	16mm Hg (for water), 2,4-D amine salt is non volatile.
Volatile Component	30%
Flammability	Non combustible material.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D acid and largely de-activate the product and cause blockages in spray equipment. The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine is moderately toxic, LD50 (oral, rat) is 700 mg/kg and a TLV of 10 ppm (TWA) has been set.
Hazardous Reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No harmful effects are expected if the precautions on the label and this MSDS are followed.
Inhalation	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. The concentrate is considered harmful by inhalation by Worksafe Australia. A moderate hazard exists from inhalation of spray and care should be taken to avoid inhalation of spray mists.
Ingestion	Not a likely route of exposure. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. However, swallowing of large amounts may cause injury. Ingestion of the product in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.
Skin	Prolonged contact with the concentrate may cause irritation. Prolonged contact of the concentrate with skin will result in absorption of some 2,4-D which can be harmful.
Eye	The concentrate will cause irritation of the eyes. Prolonged contact with the concentrate may cause damage to the eye.

Page: 4 of 5

Infosafe No.	3NU6H	Issue Date : June 2007	ISSUED by CRPCARE
Product Name :	AMINE 625 Se	lective Herbicide	
Chronic Effects		exposure: Repeated absorption of relatively .sk to the liver and kidneys.	large amounts of 2,4-D
Carcinogenicity	The weight of	the evidence is that 2,4-D is not carcino	genic.
Acute Toxicity - Oral	LD50 (rat) 7	599 mg/kg for 2,4-dichlorphenoxyacetic acid 700 mg/kg for dimethylamine 710 mg/kg for diethanolamine	
Acute Toxicity - Dermal	LD50 (rabbit)	>2000 mg/kg	
Acute Toxicity - Inhalation	LC50 (rat)	(4hr) >1.79 mg/l	
Skin Irritation	Not a skin in	ritant.	
Skin Sensitisation	Product is no	ot a skin sensitiser.	
Other Information	mg/kg/day, see the NOEL of 1 term exposure species. (Ref 2006). In trials usi of between 5 Formulated 2, mist) and the absorption the agricultural is very low.	An Acceptable Daily Intake (ADI) for 2,4-D and for the public for daily, lifetime expose ang/kg/day, the level determined to show not a for the most sensitive indicators and the and 2,4-D as a drug, studies on volunteers have and 36 mg/kg body weight do not cause any a 4-D products can be absorbed by ingestion, cough the skin. Studies of users (sprayers prough the skin is the most common route. It spraying practice and good personal hygiend	ure. This is based on o effects during long most sensitive ist', TGA, September have shown that doses acute toxic effects. inhalation (spray) has shown that When used with good

12. ECOLOGICAL INFORMATION

Persistence / Degradability	Half life in soil is typically 7 days. Loss from soil is principally by microbial degradation.	
Mobility	Rapid degradation in soil prevents significant downward movement under normal conditions.	
Known Harmful Effects on the Environment	2,4-D amine products do not appear to pose any threat to birds. 2,4-D amine products do not appear to pose any threat to fish or other aquatic organisms other than in very high concentrations.	
Environ. Protection	Spray drift can cause damage, read the label for more information.	
Acute Toxicity - Fish	Not toxic to fish. LC50 (96 hr) for rainbow trout is ~100 mg/l.	
Acute Toxicity - Daphnia	LC50 (48hr) for 2,4-D amines is 184 mg/l.	
Acute Toxicity - Other Organisms Sewage Treatment	Birds: Not toxic to birds. LD50 for mallard ducks is >1000 mg/kg Bees: Not toxic to bees. LD50 104.5 µg/bee. Not inhibitory in sewage system, 2,4-D is rapidly biodegraded.	

13. DISPOSAL CONSIDERATIONS

Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
Container Disposal	Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill.

Page: 5 of 5

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Infosafe No.	3NU6H	Issue Date : June 2007	ISSUED by CRPCARE
Product Name :	AMINE 625 Selective Herbicide		
	If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.		
14. TRANSPORT	INFORM	ATION	
Transport Information Storage and Transport IMDG UN No	It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport. Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not a marine pollutant.		
15. REGULATO	RY INFOR	MATION	
Poisons Schedule	S5		
Packaging & Labelling	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING		
Hazard Category	Harmful		
AICS (Australia)	All of the components in this product are listed on the Australian Inventory of Chemical Substances.		
16. OTHER INFO	ORMATIO	N	
Contact Person/Point Revisions Highlighted	After Hou	1	Phone: (03) 9282 1000 Phone: 1800 033 498 s were made to the information.
2 0	End Of	f MSDS	