# Material Safety Data Sheet

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Infosafe No<sup>™</sup> 3NUIE Issue Date :April 2008 ISSUED by CRPCARE <sup>CS: 1.4.21</sup>

Product Name AFFINITY FORCE® HERBICIDE

Classified as hazardous according to criteria of NOHSC

# **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product Name	AFFINITY FORCE® HERBICIDE		
<b>Product Code</b>	0116		
Product Type	Group G 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 certain annual broadleaf weeds in winter cereals and pyrethrum as per the Directions For 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	Classified as hazardous according to criteria of NOHSC
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)	Classified as hazardous according to criteria of NOHSC
	R65 Harmful: may cause lung damage if swallowed.
	R66 Repeated exposure may cause skin dryness and cracking.
	R67 Vapours may cause drowsiness and dizziness
Safety Phrase(s)	S13 Keep away from food, drink and animal feeding stuffs.
	S2 Keep out of reach of children.
	\$36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
<b>Other Information</b>	Poisons Schedule : Not Scheduled

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Characterization	Liquid			
Ingredients	Name	CAS	Proportion	
	Carfentrazone- ethyl	128639-02-1	240 g/L	
	Other ingredients (considered non-hazardous)		30-60 %	
	hon-hazardous) Liquid Hydrocarbon	64742-94-5	10-30 %	

## **4. FIRST AID MEASURES**

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty 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.
Skin	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.
Eye	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

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First Aid Facilities Advice to Doctor	Seek medical advice. If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.			
<b>5. FIRE FIGHTIN</b>	NG MEASURES			
Suitable Extinguishing Media Hazards from Combustion Products	Water fog, foam, carbon dioxide or dry chemical. If involved in a fire, it may emit hydrogen chloride, phosgene and hydrogen fluoride.			
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.			
6. ACCIDENTAL	RELEASE MEASURES			
Spills & Disposal	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. On-site disposal of concentrate is not acceptable.			
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.			
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation.			
7. HANDLING A	ND STORAGE			
Precautions for Safe Handling	Do NOT spray in high winds. Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.			
Conditions for Safe Storage	Store in the closed, original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.			
Tank Cleaning	See label for detailed information on cleaning of spray equipment.			
Other Information	Always read the label and any attached leaflet before use. Mix only as much herbicide solution as needed at the time. Do not store the sprayer for any extended period of time, especially overnight, with Affinity Force Herbicide spray solution remaining in the tank, spray lines, spray boom plumbing or spray nozzles or strainers.			
8. EXPOSURE CO	ONTROLS/PERSONAL PROTECTION			
National Exposure Standards Engineering Controls	The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m3; 15ppm TWA, as total hydrocarbon. Handle in well ventilated areas, generally natural ventilation is adequate.			
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length rubber gloves and face shield or goggles. Re-entry period: Do not enter treated area until spray has dried.			
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.			
Requirements Concerning Special Training 9. PHYSICAL AN	NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials.			

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

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Product Name	AFFINITY FORCE® HERBICIDE			
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Appearance	Milky emulsion.			
<b>Boiling Point</b>	220-290°C (for solvent)	220-290°C (for solvent)		
Solubility in Water	Forms an emulsion in water.			
Specific Gravity	1.07			
Vapour Pressure	0.016 mPa @ 25°C for carfentrazone ethyl			
Vapour Density (Air=1)	>1 (solvent)			
Octanol/Water Partition Coefficient	Kow Log P is 3.36 for carfentrazone-ethyl			
Flash Point	>104°C			
Flammability	Combustible liquid C1.			
Auto-Ignition Temperature	>450°C (solvent)			
10. STABILITY A	AND REACTIVITY			
Chemical Stability	Stable under normal conditions. Hydrolyses at pH >7.			
Hazardous	Keep away from strong oxidising agents.			
Reactions Hazardous Polymerization	Hazardous polymerisation is not possible.			
11. TOXICOLOG	GICAL INFORMATION			
Toxicology Information	No harmful effects are expected if the precautions on the label are followed.	l and th	is MSDS	
Inhalation	High vapour concentrations of the solvent while handling the co	oncentra	te are	

Toxicology	No natified effects are expected if the precautions on the taber and this MSDS			
Information	are followed.			
Inhalation	High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.			
Ingestion	If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.			
Skin	Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.			
Eye	The concentrate will cause irritation of the eyes. Possible symptoms include redness, swelling, tearing and pain.			
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.			
Acute Toxicity - Oral	LD50 (female, rat) >4,000 mg/kg for the product			
Acute Toxicity - Dermal	LD50 (rabbit) >4,000 mg/kg for the product			
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >6 mg/l			
Other Information	The Australian Acceptable Daily Intake (ADI) for carfentrazone-ethyl for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', September 2007).			

## **12. ECOLOGICAL INFORMATION**

Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environ.</b> Protection	Spray drift can cause damage, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, carfentrazone-ethyl. Not toxic to fish. LC50 (96 hr) for various species is 1.6 - 43 mg/l.
Acute Toxicity -	LC50 (96hr) for daphnia is 9.8 mg/l.
Daphnia	

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Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for quail is >1000 mg/kg Bees: Not toxic to bees. LD50 >100 (contact) µg/bee.			
13. DISPOSAL CO	ONSIDERATIONS			
Product Disposal Container 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®). Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the			
	<pre>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. 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.</pre>			
14. TRANSPORT	INFORMATION			
Transport	Not classified as Dangerous Goods, according to the Australian Code for the			
Information	Transport of Dangerous Goods by Road and Rail.			
Storage and Transport UN Number (Sea	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail. 3082			
Transport) IMO Class/Packing Group	Class 9; Packing Group III			
IMO Marine Pollutant	Marine Pollutant			
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Carfentrazone Ethyl)			
15. REGULATOR	RY INFORMATION			
Packaging & Labelling	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING			
Hazard Category AICS (Australia)	Harmful All of the components in this product are listed on the Australian Inventory of Chemical Substances.			

## **16. OTHER INFORMATION**

Date of preparation	02/04/2008		
or last revision of			
MSDS			
Contact	Normal Hours:	Mr Volker Maier	Phone: (03) 9282 1000
Person/Point	After Hours:	Shift Supervisor	Phone: 1800 033 498
Revisions	First Issue		
Highlighted			
<b>Other Information</b>	® Registered trademark of FMC Corporation, Philadelphia, USA		
	End Of MSDS	5	

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