

# MATERIAL SAFETY DATA SHEET

DATE OF ISSUE: 22.03.2012

PREPARED BY: LL

## 1. IDENTIFICATION OF MATERIAL AND SUPPLIER

<b>PRODUCT NAME:</b> Barmac Javelin Selective Herbicide	<b>HERBICIDAL GROUP:</b> Group FI Herbicide, Nicotinilids (PSD Inhibitors) and Phenoxyacetic acids (disruptor of plant cell growth)	<b>APVMA REGISTRATION NUMBER:</b> 67539
<b>USE:</b> Herbicide	<b>AUSTRALIAN DISTRIBUTOR:</b> BarmaC, a division of Amgrow Pty Ltd. 17 Machinery Street, Darra, QLD 4076 Phone: (07) 3727 3000 Fax: (07) 3727 3030	<b>EMERGENCY PHONE NUMBERS:</b> <b>Australia:</b> Fire Brigade, Ambulance and Police Services: 000 Poisonings: 131 126 POISON INFORMATION CENTRE
<b>FORM:</b> Suspension Concentrate		

## 2. HAZARD IDENTIFICATION

Classified as hazardous according to the criteria of SWA. Not dangerous according to the ADG Code.  <b>HAZARD CATEGORY:</b> Xn (Harmful)  <b>POISON SCHEDULE:</b> S5 according to the SUSMP	<b>RISK PHRASES:</b> R20/21/22, R50, R53.	<b>SAFETY PHRASES:</b> S2, S13, S60, S61.
	<b>HAZCHEM CODE:</b> None Allocated.	<b>UN NUMBER:</b> Exempt.

## 3. COMPOSITION INFORMATION ON INGREDIENTS

<b>MIXTURE: CHEMICAL IDENTITY:</b>	<b>PROPORTION:</b>	<b>CAS NO:</b>
Diflufenican	15 g/L	83164-33-4
MCPA	300 g/L	94-74-6
Clopyralid	20 g/L	1702-17-6
Propylene Glycol	High	57-55-6
Other Non hazardous ingredients	High	Not Applicable

## 4. FIRST AID MEASURES

<b>SWALLOWED:</b> Wash mouth out with water. Do not induce vomiting. Keep patient at rest and seek medical advice.	<b>SKIN:</b> Wash off skin immediately with soap and water. Remove all contaminated clothing and shoes. Seek medical advice if symptoms persist.
<b>EYES:</b> Immediately flush the contaminated eye(s) with flowing water for at least 15 minutes Obtain medical attention if symptoms persist.	<b>INHALED:</b> Remove patient from contaminated area. Contact a doctor if symptoms persist.

## 5. HEALTH EFFECTS

<b>INGESTION:</b> Mildly irritating to the gastrointestinal tract. Will cause mild to strong sensation to mouth and throat.	<b>INHALED:</b> Irritating if inhaled. Will cause discomfort to throat and lungs and/or coughing, which should disappear once exposure has ceased.
<b>SKIN:</b> May irritate the skin. It is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any significant lasting effects.	<b>EYES:</b> Irritating to eyes. It will cause discomfort such as stinging pain, watering and redness of the eyes. Effects may last after exposure has ceased, and in severe exposure, long lasting or even permanent effects such as corneal damage can occur.

## 6. FIRE-FIGHTING MEASURES

<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> When fighting fires involving significant amounts, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator.	<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b> Fire decomposition products may form toxic and irritating mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating.
<b>FLAMMABILITY:</b> Not Flammable.	<b>HAZCHEM CODE:</b> None Allocated.
<b>EXPOSURE LIMITS:</b> SWA has set a limit for propylene glycol as TWA 10.0mg/m <sup>3</sup> .	<b>EXTINGUISHING MEDIA:</b> Water, foam, fog, dry chemical.

## 7. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PROTECTION:</b> Wash hands after use. When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and goggles. After each day's use wash gloves, goggles and contaminated clothing.
<b>ENVIRONMENTAL PROTECTION:</b> Dangerous to fish and other aquatic life. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.
<b>CLEAN UP AND DISPOSAL:</b> Keep all bystanders away. Reposition any leaking containers so as to minimise further leakage. Dam and absorb spill with an absorbent material (e.g. sand or soil). Shovel the absorbed spill into drums and top with hydrated lime. Disposal of the absorbent material will depend on the extent of the spill. For quantities up to 50L of product bury in a secure land fill site. For quantities greater than 50L seek advice from the manufacturer before attempting disposal. Decontaminate spill area with hydrate lime scattered over the spill prior to rinsing off with water.

## 8. HANDLING AND STORAGE

<b>HANDLING:</b> When opening the container, preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and goggles. After each day's use wash gloves, goggles and contaminated clothing.
<b>STORAGE:</b> Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

## 9. EXPOSURE CONTROL/PERSONAL PROTECTION

<b>SKIN PROTECTION:</b> Wear cotton overalls buttoned to the neck and wrist, washable hat, elbow length PVC gloves, impervious footwear.	<b>RESPIRATOR TYPE:</b> Half face respirator is recommended when TWA levels are exceeded.
<b>HYGIENE RECOMMENDATIONS:</b> After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, goggles, contaminated clothing.	<b>EYE PROTECTION:</b> Protective glasses or goggles should be worn when this product is being used.
<b>EXPOSURE LIMITS:</b> SWA has set a limit for propylene glycol as TWA 10.0mg/m <sup>3</sup> .	<b>VENTILATION:</b> Must be available when using this product, particularly without a respirator.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b> Light brown suspension with sweet odour.	<b>pH:</b> 10.	<b>SPECIFIC GRAVITY:</b> 1.16	<b>AUTOIGNITION TEMPERATURE:</b> No data
<b>FLASH POINT:</b> No data	<b>VAPOUR DENSITY:</b> No data	<b>VAPOR PRESSURE:</b> No data.	<b>SOLUBILITY:</b> Dispersible.

## 11. STABILITY AND REACTIVITY

**STABILITY:** Stable if stored in original container under normal ambient conditions.

**INCOMPATIBILITY/ CONDITIONS TO AVOID:** Strong Acids, Strong Bases, Strong Oxidising Agents. Excessive heat and sunlight.

**HAZARDOUS DECOMPOSITION PRODUCTS:** This product is unlikely to spontaneously decompose.

## 12. TOXICOLOGICAL INFORMATION

### For Clopyralid

LD50 Oral (Rat) = 2675 mg/kg  
LD50 Dermal (Rat > 2000 mg/kg  
LC50 Inhalation (Rat) > 0.38 mg/L4hr

### For Diflufenican

LD50 Oral (Rat) > 2000 mg/kg  
LD50 Dermal (Rat > 2000 mg/kg  
LC50 Inhalation (Rat) > 2.34 mg/L4hr

### For MCPA:

LC50 Oral (Rat) 900 – 1160 mg/kg  
LD50 Oral (mouse) 550 mg/kg  
LD50 Dermal (Rat > 4000 mg/kg  
LC50 Inhalation (Rat) > 6.36 mg/L/4hr

## 13. ECOLOGICAL INFORMATION

Rainbow trout LC50 (96hr):MCPA 232 mg/L, Clopyralid 103.5 mg/L, Diflufenican 56-100 mg/L  
Daphnia LC50 (48hr): MCPA >100 mg/L, Clopyralid 225 mg/L, Diflufenican no effect at 10 mg/L  
Bobwhite quail oral LD50 : , MCPA 377 mg/kg, Clopyralid >2000 mg/kg, Diflufenican >2150 mg/kg  
Bees LD50 : MCPA 0.104 mg/bee, Clopyralid non toxic, Diflufenican non toxic

**ENVIRONMENTAL FATE:** Diflufenican half life in soil is 15 to 30 weeks. MCPA residual activity in soil is 3 to 4 months.

## 14. DISPOSAL

**WASTE DISPOSAL METHOD:** Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or a designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

## 15. TRANSPORT INFORMATION

This product is not a Dangerous Good, transport in accordance to local regulations.

## 16. REGULATORY INFORMATION

**POISONS SCHEDULE:** Schedule 5 according to SUSMP.

**HAZARD CATEGORY:** Xn (Harmful)

## 16. OTHER INFORMATIONS

This MSDS contains only safety-related information. For other data see product literature.

**Acronyms:ADG Code:** Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

**SWA** Safe Work Australia, formerly ASCC and NOHSC

**CAS Number** Chemical Abstracts Service Registry Number

**SUSMP** Standard for the Uniform Scheduling of Medicine & Poisons

**UN:** United Nations Number

**TWA:** Time weight average.

Barmac Pty Ltd. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data relevant to their particular use.