

Amgrow Chemspray Kleen Lawn Selective Lawn Weeder**Section 1 - Identification of Chemical Product and Company****Amgrow Pty Ltd**
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Trade Name: **Amgrow Chemspray Kleen Lawn**

Product Use: Domestic (garden) selective herbicide for use as described on the product label.

Revised Date: **January 2012****Section 2 - Hazards Identification****Statement of Hazardous Nature****CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF ASCC****NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE****Risk Phrases:** R41 Risk of serious damage to eyes.**Safety Phrases:** S24/S25. Avoid contact with skin and eyes.**SUSDP Classification:** S6.**ADG Classification:** None allocated. Not a Dangerous Good under the ADG Code.**UN Number:** None allocated**Emergency Overview****Physical Description & colour:** Clear, light brown liquid**Odour:** Very mild odour.**Major Health Hazards:** no significant risk factors have been found for this product.**Potential Health Effects****Inhalation:** Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.**Skin Contact:** This product may irritate skin, however it is unlikely to cause more than minor discomfort such as itchiness or slight skin reddening**Eye Contact:** This product is irritating to eyes. It will cause discomfort such as stinging pain, watering and redness of the eyes. Effects may last after exposure has ceased

With long-term or severe exposure, long lasting or even permanent effects such as corneal damage can occur.

Ingestion: Data suggests that this product is harmful if swallowed.**Carcinogen Status:****ASCC:** No significant ingredient is classified as carcinogenic by ASCC.**NTP:** No significant ingredient is classified as carcinogenic by NTP.**IARC:** No significant ingredient is classified as carcinogenic by IARC.**Section 3 - Composition/Information on Ingredients**

Ingredients	CAS No	Conc,%	TWA (mg/m3)	STEL (mg/m3)
Mecoprop	7085-19-0	24	not set	not set
Dicamba (as dimethylamine salt)	2300-66-5	4	not set	not set
Water	7732-18-5	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The ASCC TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

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Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: First aid is not generally required. However if vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists for more than 30 minutes, seek medical advice. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: If product gets on skin, thoroughly wash contacted areas. No further measures should normally be required unless irritation is noticed. If irritation persists, seek medical advice.

Eye Contact: If product comes into contact with eyes seek medical attention - flush with lukewarm, gently flowing water for at least 15 minutes. Ensure irrigation under eyelids. Do not try to remove contact lenses unless trained.

Ingestion: Rinse mouth with water and give some water to drink. Seek immediate medical assistance.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

No decomposition products are expected from this product at temperatures normally achieved in a fire.

Extinguishing Media: Not Combustible. Use extinguishing media suited to burning materials.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including facemask, face shield, overalls and gauntlets. Suitable materials for protective clothing include rubber, PVC. All skin should be covered. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. If a significant quantity of material enters drains, advise emergency services. Refer to product label for specific instructions. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Keep away from extreme heat and open flames. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)	ADI (mg/Kg/day)	NOEL (mg/Kg/day)
Mecoprop	not set	not set	0.06	1.0
Dicamba	not set	not set	0.03	3.0

Exposure limits have been set for ingredients in product. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A TWA has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2003.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Protective eyewear should be worn when using this product. Eye contact may prove painful and dangerous and should be avoided.

Skin Protection: Impermeable protective gloves should be worn when using this product to prevent irritation. Clean overalls should be worn, preferably with an apron, in case of spillage.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Always wash hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storing or using.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear, light brown liquid.
Odour:	Very mild odour.
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Approximately 0°C.
Volatiles:	Water component.
Vapour Pressure:	No data
Vapour Density:	No data.
Specific Gravity:	1.11
Water Solubility:	Completely soluble in water.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water distribution:	No data
Autoignition temp:	Not applicable - does not burn.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Avoid contact with foodstuffs, avoid exposure to extreme heat or flame.

Incompatibilities: No particular Incompatibilities.

Fire Decomposition: No decomposition products at temperatures normally achieved in a fire.

Polymerisation: This product is unlikely to spontaneously polymerise.

Section 11 - Toxicological Information

Local Effects:

Target Organs: There is no data to hand indicating any particular target organs.

Classification of Hazardous Ingredients

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

Section 12 - Ecological Information

Ecotoxicity: Low toxicity to birds, fish, bees and earthworms.

DO NOT contaminate streams, rivers or waterways

Toxicity has not been determined for the product. Toxicities for the individual components are below.

Mecoprop: LC50 (Daphnia) 1.4mg/L, LC50 (mallard duck) >5620 mg/kg, LC50 (bobwhite quail)

>5000mg/kg, LD50(bobwhite quail) 700mg/kg, LD50 (Japanese quail) 740 mg/kg, LC50 (rainbow trout) (96h) 124 mg/L LC50 (bluegill sunfish) (96h) 100 mg/L

Dicamba – LC50 (Daphnia) 110 mg/L, LC50 (rainbow trout and bluegill sunfish) (96 hr) 135mg/L

Environmental Fate:

Mecoprop - residual activity in soil about 2 months. Adsorption of mecoprop in soil increases with increased organic matter. Very mobile in a variety of soils. No data on breakdown in surface water and vegetation. Readily biodegradable according to the appropriate OECD test. DT50 8-14 days. No bioaccumulation

Dicamba - loss from soil primarily by microbial degradation

Section 13 - Disposal Considerations

Disposal: Disposal instructions appear on the product label and should be followed. Empty containers are usually discarded with household rubbish.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16 - Other Information

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
AICS	Australian Inventory of Chemical Substances
ASCC	Office Of The Australian Safety And Compensation Council
CAS number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program (USA)
NOHSC	National Occupational Health and Safety Council
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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