

Product Name: Keep Off[®] Dog & Cat Repellent Spray

This revision issued: December 2012

Section 1 – Identification of the Material and Supplier**Multicrop (Aust) Pty Ltd****Phone: +61 3 8720 2100****6-10 Koornang Rd****Fax: +61 3 9720 5051****Scoresby, Vic 3179**

Chemical Nature:	Water solution of ingredients.
Trade Names:	Multicrop Keep Off [®] Dog & Cat Repellent Spray RTU
Product Codes:	92010, 92050
Product Use:	Dog & Cat Repellent

Section 2 – Hazards Identification**Statement of Hazardous Nature** Not classified as hazardous according to the criteria of SWA.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not Hazardous – No criteria found.**Safety Phrases:** S26, S28, S28, S36, S24/25. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing. Avoid contact with skin and eyes.**SUSDP Classification:** None allocated.**ADG Classification:** None allocated. Not a Dangerous Good under the ADG Code.**UN Number:** None allocated.**Emergency Overview**

Physical Description & Colour:	Cloudy white liquid.
Odour:	Strong, pungent odour.
Major Health Hazards:	No significant risk factors have been found for this product.

Potential Health Effects**Inhalation:**
Short Term Exposure: 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.**MATERIAL SAFETY DATA SHEET**

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Phone: +61 3 8720 2100 (business hours)

Poisons Information Centre: 13 1126 from any where in Australia (0800 764 766 in New Zealand)

THIS MSDS SUMMARISES TO OUR BEST KNOWLEDGE AS AT THE ISSUE DATE THE CHEMICAL HEALTH AND SAFETY HAZARD OF MATERIAL AND GENERAL GUIDANCE ON HOW TO SAFELY HANDLE THE MATERIAL. MULTICROP(AUST) PTY LTD CANNOT CONTROL OR ANTICIPATE THE CONDITION AND ENVIRONMENT UNDER WHICH THE PRODUCT IS USED OR STORED. EACH USER MUST, PRIOR TO USE, UNDERSTAND ANY RISK ARISING FROM USE OF THE MATERIAL IN THE COMPOSITION OF THIS PRODUCT.

Long Term Exposure:	No data for health effects associated with long term inhalation.
Skin Contact:	
Short Term Exposure:	Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild transient discomfort.
Long Term Exposure:	No data for health effects associated with long term skin exposure.
Eye Contact:	
Short Term Exposure:	This product is believed to be mildly irritating, to eyes, but is unlikely to cause anything more than mild transient discomfort.
Long Term Exposure:	No data for health effects associated with long term eye exposure.
Ingestion:	
Short Term Exposure:	Significant oral exposure is considered to be unlikely. In addition, this product contains denatonium benzoate (bitrex) making it unpotable.
Long Term Exposure:	No data for health effects associated with long term ingestion.
Carcinogen Status:	
SWA:	No significant ingredient is classified as carcinogenic by SWA.
NTP:	No significant ingredient is classified by NTP.
IARC:	No significant ingredient is classified as carcinogenic by IARC.

Section 3 – Composition/Information on Ingredients

Ingredients	CAS No	Conc.%	TWA (mg/m ³)	STEL (mg/m ³)
Aluminium ammonium sulfate	7784-25-0	50g/L	2	not set
Other non hazardous ingredients	Various	10-30g/L	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 SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for 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 substances, 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 11 26 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. If in doubt, contact a Poisons Information Centre or a doctor
- Skin Contact:** Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 10 minutes or until chemical is removed. If irritation persists, repeat flushing and obtain medical advice.
- Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice immediately if irritation occurs. Take special care if exposed person is wearing contact lenses.
- Ingestion:** If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Section 5 – Fire Fighting Measures

- Fire & Explosion Hazards:** There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
- 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:** This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

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Section 7 – Handling & Storage

- Handling:** Keep exposure to this product to a minimum, and minimize 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 minimize risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
- Storage:** Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Keep containers of this product in a well ventilated area. Protect this product from light. 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 Control & 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/NZS 2210**.

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
aluminium ammonium sulfate	2	not set

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:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
- Eye Protection:** Eye protection such as protective glasses or goggles is recommended when this product is being used.
- Skin Protection:** You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.
- 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. Safety deluge showers should, if practical, be provided near to where this product is being used.

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Section 9 – Physical & Chemical Properties

Physical Description & colour: Cloudy white liquid.

Odour:	Strong, pungent odour.
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Approximately 0°C.
Volatiles:	Water component.
Vapour Pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour Density:	No data.
Specific Gravity:	1.0 approx
Water Solubility:	Completely soluble in water.
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Ceff Oil/water Distribution:	No data.
Autoignition Temp:	Not applicable – does not burn.

Section 10 – Stability & Reactivity

Reactivity:	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid:	This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Protect this product from light.
Incompatibilities:	Strong acids, strong bases.

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Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Aluminium compounds, aluminum compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

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

Classification of Hazardous Ingredients

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

Section 12 - Ecological Information

Insufficient data to be sure of status. Expected to not be an environmental hazard.

Section 13 - Disposal Considerations

Disposal: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

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.

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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 (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

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