

## Section 1 - Identification of the Material and Supplier

<b>FMC Australasia Pty Ltd</b> 12 Julius Ave North Ryde, NSW 2113	<b>Emergency: 1800 033 111 (24 hours - Australia wide)</b> <b>Freecall 1800 624 597 (business hours)</b> <b>www.fmccrop.com.au</b>
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**Chemical nature:** Acephate  
**Trade Name:** Ammo<sup>®</sup> Xtra Insecticide  
**APVMA Code:** 86543  
**Product Use:** Agricultural Insecticide for use as described on the product label  
**Creation Date:** 2 October 2018  
**This version issued:** 2 October 2018 and is valid for 5 years from this date  
**Poisons Information Centre: Phone 13 1126 from anywhere in Australia**

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: H302 Harmful if swallowed

**SUSMP Classification:** S6 Poison

**ADG Classification:** Not regulated as a dangerous good



### GHS Signal word: WARNING

Acute toxicity (Oral): Category 4

### HAZARD STATEMENT:

H302: Harmful if swallowed.

### PREVENTION

- P261: Avoid breathing dusts.
- P262: Do not get in eyes, on skin, or on clothing.
- P264: Wash contacted areas thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P281: Use personal protective equipment as required.

### RESPONSE

- P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.

### STORAGE

P402+P404: Store in a dry place. Store in a closed container.

### DISPOSAL

P501 Dispose of contents/ container to an approved waste disposal plant.

## Emergency Overview

**Physical Description & Colour:** granular, white.

**Odour:** Sulphurous.

**Major Health Hazards:**

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, (% w/w)
Acephate	30560-19-1	>= 60 - <= 100

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 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

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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.

## Section 4 - First Aid Measures

### General Information:

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

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 and is available at all times. Have this SDS with you when you call.

**Inhalation:** Move to fresh air. Consult a physician after significant exposure.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

**Eye Contact:** Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed:** Symptoms may be delayed. Harmful if swallowed.

**Notes to physician:** The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## Section 5 - Fire Fighting Measures

### Fire and Explosion Hazards:

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Standard procedure for chemical fires.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

**Fire Fighting:** When fighting fires involving significant quantities of this product, wear a fully encapsulated splash suit complete with self contained breathing apparatus.

**Flash point:** Not applicable.

**Upper Flammability Limit:** No data.

**Lower Flammability Limit:** No data.

**Autoignition temperature:** No data.

**Flammability Class:** No data.

## Section 6 - Accidental Release Measures

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. 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. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## Section 7 - Handling and Storage

**Advice on protection against fire and explosion:** Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

**Advice on safe handling:** Avoid formation of respirable particles. Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**Conditions for safe storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this class of poison. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well-ventilated area.

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## 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, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

Exposure limits have not been established by ASCC for this product.

The ADI for acephate is set at 0.003 mg/kg/day. The corresponding NOEL is set at 0.22 mg/kg/day. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, April 2008.

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

**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:** If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

## Physical and Chemical Properties:

<b>Physical Description &amp; colour:</b>	White or blue pellets
<b>Odour:</b>	Strong cabbage-like odour.
<b>Boiling Point:</b>	No data
<b>Freezing/Melting Point:</b>	No data
<b>Volatiles:</b>	No data
<b>Vapour Pressure:</b>	No data
<b>Vapour Density:</b>	No data
<b>Specific Gravity:</b>	1.35
<b>Water Solubility:</b>	790 g/L at 20°C
<b>pH:</b>	No data
<b>Volatility:</b>	5 – 8 (aqueous solution)
<b>Odour Threshold:</b>	No data
<b>Evaporation Rate:</b>	No determined
<b>Coeff Oil/water Distribution:</b>	-0.89 (log P octanol/water)
<b>Autoignition temp:</b>	No data

## Section 10 - Stability and 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. Containers should be kept dry. Protect this product from light.

**Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour. Oxides of phosphorus and other phosphorus compounds. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

**Polymerisation:** This product is unlikely to undergo polymerisation processes.

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## Section 11 - Toxicological Information

### Toxicity:

An information profile for Acephate is available at <http://extoxnet.orst.edu/pips/ghindex.html>

**Acute Toxicity:** The acute oral LD<sub>50</sub> for technical grade acephate in female rats is 866 mg/kg; 945 mg/kg for male rats; 361 mg/kg for mice.

**Chronic Toxicity:** In 2-year feeding trials, dogs exhibited depression of cholinesterase at 100 mg/kg diet (maximum dose level) of acephate but no other significant effects; rats showed depression of cholinesterase but no effect on weight gain or pathological effect at 30 mg/kg diet.

**Reproductive Effects:** Acephate is considered a foetotoxin (can poison the foetus) and there is some evidence of hormonal effects.

**Teratogenic Effects:** No effects were observed in 2-year feeding trials on dogs.

**Mutagenic Effects:** No effects were observed in 2-year feeding trials on dogs.

**Carcinogenic Effects:** No effects were observed in 2-year feeding trials in dogs.

**Organ Toxicity:** Exposure effects of acephate in humans can include: cardiac responses (bradycardia/tachycardia, heart block), central nervous system impairment, eye problems (miosis/mydriasis, loss of accommodation, ocular pain, sensation of retrobulbar pressure, tearing, dark or blurred vision, conjunctiva hyperaemia, cataracts), gastrointestinal problems (abdominal cramps, heart burn, hyperperistalsis), respiratory effects (apnea, dyspnoea, hypopnoea, atelectasis, bronchoconstriction, bronchopharyngeal secretion, chest tightness, productive cough, rales wheezing, pulmonary oedema, laryngeal spasms, rhinorrhea, oronasal frothing) and death due to respiratory failure. Fate in Humans and Animals. Exposure to acephate can result in alkyl phosphates in urine. There is no data to hand indicating any particular target organs.

## Section 12 - Ecological Information

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

**Effects on Birds:** Acephate is considered moderately toxic to upland game birds. The LD<sub>50</sub> for acephate in mallard ducks is 350 mg/kg; 140 mg/kg in pheasants; > 5,000 ppm for the mallard and 1,280 ppm for the bobwhite quail. Acephate may affect behaviour and breeding success.

**Effects on Aquatic Organisms:** The compound is considered relatively non-toxic to fish with an LC<sub>50</sub> for goldfish of 9,550 mg/L and rainbow trout >1,000 mg/L over 96 hours.

**Effects on Other Animals (Nontarget species):** Acephate is considered toxic to bees. The LC<sub>50</sub> for bees is 1.2 µg/bee.

### ENVIRONMENTAL FATE

**Breakdown of Chemical in Soil and Groundwater:** Acephate dissipates rapidly with half-lives of <3 and 6 days in aerobic and anaerobic soils, respectively. The major metabolite was CO<sub>2</sub> in both soil types.

**Breakdown of Chemical in Surface Water:** No information was currently available.

**Breakdown of Chemical in Vegetation:** Acephate is quickly absorbed, translocated, and transformed in pine seedlings and cotton plants. The chemical was metabolised via cleavage of the amide bond to form methamidophos and an unknown, but insecticidally active compound, which were identified in the roots, stems, and leaves.

## Section 13 - Disposal Considerations

### Disposal

**Waste from residues:** Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** 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.

## Section 14 - Transport Information

### International Regulation

**UNRTDG:** Not regulated as a dangerous good

**IATA-DGR:** Not regulated as a dangerous good

**IMDG-Code:** Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable for product as supplied.

### National Regulations

**ADG:** Not regulated as a dangerous good

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## Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons: Schedule 6

Prohibition/Licensing Requirements: There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

## Section 16 - Other Information

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

### Acronyms:

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> edition)
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>SWA</b>	Safe Work Australia, formerly ASCC and NOHSC
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>R-Phrase</b>	Risk Phrase
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines & Poisons
<b>UN Number</b>	United Nations Number

THIS SDS 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 SDS 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 SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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