



4 Farmers ... For Farmers

Printing date 10.02.2017

Safety Data Sheet

according to WHS Regulations

Revision: 10.02.2017

1 Identification

Product Name: 4FARMERS OMETHOATE 290 INSECTICIDE

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Agricultural insecticide

Details of Manufacturer or Importer:

4Farmers Pty Ltd
70 McDowell Street
Welshpool WA 6106

Phone Number: +61 8 9356 3446

Emergency telephone number: National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Flammable Liquids 3 H226 Flammable liquid and vapour.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Warning

Hazard Statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

Precautionary Statements

P233 Keep container tightly closed.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P280 Wear protective gloves / eye protection / face protection.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P273 Avoid release to the environment.

P243 Take precautionary measures against static discharge.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P370+P378 In case of fire: Use to extinguish: CO2, powder or water spray.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

1113-02-6	Omethoate	29%
	☠ Acute Toxicity (Oral) 3, H301; ☠ Aquatic Acute 1, H400; ☠ Acute Toxicity (Dermal) 4, H312	

Additional information: Solvent - CAS No. not supplied

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids apart and flush eye cautiously with running water for at least 15 minutes or until advised to stop by the Poisons Information Centre or a doctor. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Activated charcoal or atropine should be given if instructed. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Symptoms of poisoning by inhalation are the same as those from ingestion.

Skin: Symptoms of poisoning by skin contact are the same as those from ingestion.

Eye: Symptoms may include stinging, reddening of the eyes and watering which may become copious.

Ingestion: Toxic if swallowed. Mild exposures to organophosphate and carbamate pesticides cause headache, fatigue, dizziness, loss of appetite with nausea, stomach cramps and diarrhoea, blurred vision with excessive tearing, contracted pupils, excessive sweating and salivation and slow heartbeat (less than 50 beats per minute). These symptoms may be mistaken as those of the flu, heat stroke, heat exhaustion or upset stomach. Moderate to severe poisoning cause cyanosis (blueness of the skin, as from lack of oxygen), chest discomfort and tightness, muscle twitching and involuntary urination and bowel movement. Severe poisonings cause incontinence, unconsciousness and seizures.

5 Fire Fighting Measures

Suitable Extinguishing Media: Foam, dry chemical powder and carbon dioxide.

Specific Hazards Arising from the Chemical:

Containers close to fire should be removed if safe to do so. Use water to keep fire exposed containers cool. Vapors are heavier than air and may travel long distance to a source of ignition and flash back.

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Hazardous combustion products include oxides of carbon, nitrogen, phosphorous and sulfur and other pyrolysis products typical of burning organic material.

Product is a flammable liquid.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Store only in original container. Keep container tightly closed when not in use. Low temperature storage may result in crystallisation from solution. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, strong acids and bases. Containers, even those that have been emptied, may contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8 Exposure controls and personal protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Use a Safe Work Australia approved vapour respirator with type a-p filter under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

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Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Clear, colourless
Odour:	Chemical odour
Odour Threshold:	No information available
pH-Value:	2-2.5 (10% in water)
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	140 °C (at 100kPa - solvent)
Flash Point:	>23 °C
Flammability:	Flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure at 20 °C:	0.49 kPa (solvent)
Density:	No information available
Relative Density at 20 °C:	1.067-1.070 g/cm ³
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Emulsifies with water.

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Direct sunlight, heat, sparks, open flames and other sources of ignition.

Incompatible Materials: Oxidising agents, strong acids and bases.

Hazardous Decomposition Products: Oxides of carbon, nitrogen, phosphorous and sulfur

11 Toxicological Information

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

1113-02-6 Omethoate

Oral	LD ₅₀	50 mg/kg (rat)
Dermal	LD ₅₀	700 mg/kg (rat)

Acute Health Effects

Inhalation: Symptoms of poisoning by inhalation are the same as those from ingestion.

Skin:

Harmful in contact with skin. Symptoms of poisoning by skin contact are the same as those from ingestion.

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Eye:

This product is an eye irritant. Symptoms may include stinging, reddening of the eyes and watering which may become copious. If exposure is brief, symptoms should disappear once exposure has ceased. Prolonged exposure or delayed treatment may cause permanent damage.

Ingestion:

Toxic if swallowed. Mild exposures to organophosphate and carbamate pesticides cause headache, fatigue, dizziness, loss of appetite with nausea, stomach cramps and diarrhoea, blurred vision with excessive tearing, contracted pupils, excessive sweating and salivation and slow heartbeat (less than 50 beats per minute). These symptoms may be mistaken as those of the flu, heat stroke, heat exhaustion or upset stomach. Moderate to severe poisoning cause cyanosis (blueness of the skin, as from lack of oxygen), chest discomfort and tightness, muscle twitching and involuntary urination and bowel movement. Severe poisonings cause incontinence, unconsciousness and seizures.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Asthma-like symptoms may continue months or even years after exposure to material. This may be due to reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compounds.

Repeated minor exposure may have a cumulative poisoning effect.

The main health effects from repeated exposure would be toxic symptoms of cholinesterase inhibition as described above (ingestion).

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for omethoate for a human is 0.0004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.04 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', June 2014).

12 Ecological Information

Ecotoxicity: Omethoate is toxic to bees.

Aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Persistence and Degradability: Persistence of omethoate is high. It is biodegradable.

Bioaccumulative Potential: Bioaccumulation of omethoate is low.

Mobility in Soil: Mobility of omethoate is high but is very rapidly metabolised.

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13 Disposal considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport information

UN Number	UN3017
ADG, IMDG, IATA	
Proper Shipping Name	3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, ENVIRONMENTALLY HAZARDOUS
ADG	
IMDG	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, MARINE POLLUTANT
IATA	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE
Dangerous Goods Class	
ADG Class:	6.1 Toxic substances.
Subsidiary Risk:	3
Packing Group:	
ADG, IMDG, IATA	III
Marine pollutant:	Yes
Hazchem Code:	3W
Special Provisions:	61, 223, 274
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03
Packagings & IBCs - Special Packing Provisions:	Not applicable
Portable Tanks & Bulk Containers - Instructions:	T7
Portable Tanks & Bulk Containers - Special Provisions:	TP2, TP28

15 Regulatory information

Australian Inventory of Chemical Substances:

1113-02-6 Omethoate

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 Other information

Date of Preparation or Last Revision: 10.02.2017

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC₅₀: Lethal concentration, 50 percent

LD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 3: Flammable liquids – Category 3

Acute Toxicity (Oral) 3: Acute toxicity – Category 3

Acute Toxicity (Dermal) 4: Acute toxicity – Category 4

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016”

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.