



MATERIAL SAFETY DATA SHEET

CHEMAG OMEN 290 INSECTICIDE

COMPANY DETAILS

Company: Imtrade Australia
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IDENTIFICATION

Product name:	Chemag Omen 290 Insecticide
Other names:	None
UN Number:	3017
Dangerous Goods Class:	6.1
Subsidiary Risk:	3
Packing group:	III
Hazchem Code:	2X
Schedule Poison:	6

PHYSICAL/CHEMICAL CHARACTERISTICS

Chemical family:	Organophosphorus
Chemical:	Omethoate
CAS No:	1113-02-6
Appearance:	Clear colourless liquid
Odour:	Aromatic, chemical
Flashpoint:	>43°C
Solubility In Water:	Soluble in water
Formulation:	Soluble concentrate
Uses:	Agricultural insecticide

pH:	3.2 to 4.2 (10% in water)
Vapour pressure:	3.3 x 10 ⁻⁵ hPa at 20°C (omethoate); 0.49kPa at 20°C (solvent)
Boiling point:	146°C (solvent)
Specific gravity:	1.05 at 20°C

REGULATORY INFORMATION

Risk Phrase	R25 – Toxic if swallowed R21 – Harmful in contact with skin R36 – Irritating to eyes R43 – May cause sensitization by skin contact
Safety Phrase	See below.
Hazard Category	Hazardous (National Occupational Health and Safety Commission – NOHSC)

STABILITY AND REACTIVITY DATA

Chemical Stability:	Stable under normal conditions of use.
Materials to Avoid:	Avoid strong oxidising agents, alkaline materials and acids.
Hazardous Polymerization:	In a fire, hydrogen cyanide, carbon monoxide, phosphorus pentoxide, sulphur dioxide and nitrogen oxides may be formed.
Hazardous Reactions Products:	None.

HEALTH HAZARD DATA

Protection equipment for handling and application

Keep out of reach of children. Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Will irritate the eyes. Avoid contact with eyes and skin. Do not inhale spray mist. If clothing becomes contaminated with product remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. 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, face shield and contaminated clothing. Keep away from excessive heat, open flames and other sources of ignition. Take precautionary measures against static discharges.

Extinguishing Media: Waterspray, foam, dry chemical, carbon dioxide, sand.

Hazards from combustion Products: In a fire, hydrogen cyanide, carbon monoxide, phosphorus pentoxide, sulphur dioxide and nitrogen oxides may be formed.

Precautions for fire fighters: The product is a flammable liquid, flash point >43°C. above this temperature, explosive vapour/air mixtures may be formed.
Firefighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away and move all other personnel to windward side of fire. Use water spray to cool fire-exposed containers. Avoid spraying directly into containers due to danger of boilover. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

Protective equipment: Product is poisonous if absorbed by skin contact, inhaled or swallowed.

- Wear face shield
- If inhalation is possible, wear an AS/NZS 1715/1716 approved organic vapour respirator.
- Wear cotton overalls buttoned to the neck and wrist, a washable hat and impervious footwear.
- Wear elbow-length PVC gloves.

Keep working clothes separate. Remove soiled or soaked clothing immediately. Clean them separately, taking suitable precautions, or destroy if necessary.

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture and spark proof equipment. The vapour of the solvent in this product may travel considerable distances to a source of ignition and flash back. Use this product in a well-ventilated area only.

Accidental release measures: Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove all possible sources of ignition. Do not smoke, eat or drink during the cleanup process. Personnel involved in cleanup should wear protective clothing and

equipment as described above. Keep people and animals away and upwind. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled drums for safe disposal. Clean floor with a damp cloth and place cloth in drum. Cover and label drums for safe disposal. Thoroughly ventilate the area after cleanup. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. Decontaminate tools and equipment used in the cleanup.

First Aid:

Eye:

Rinse eyes immediately with clean water for at least 15 minutes and obtain medical aid.

Ingestion:

Wash out mouth with water. Keep patient at rest and seek medical advice immediately, as above. Transport patient to doctor or hospital quickly. If advised by doctor or Poisons Information Centre, atropine tablets may be administered. DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person.

Inhalation:

If inhaled, remove to fresh air and keep at rest. Obtain medical advice. If breathing stops or shows signs of failing, start artificial respiration. If advised by doctor or Poisons Information Centre, atropine tablets may be administered.

Skin contact:

Immediately remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid. If advised by doctor or Poisons Information Centre, atropine tablets may be administered.

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to the doctor.

ADVICE TO DOCTOR -

Omen contains Omethoate, which is an organophosphorus compound, and as such it is a cholinesterase inhibitor.
Symptoms of poisoning

Mild intoxication causes headache, blurred vision, weakness, sweating, mild chest pain, nausea and vomiting. Severe intoxication causes cyanosis (blueness of the skin, as from lack of oxygen), muscular twitching, spasms, miosis (pinpoint pupils) and respiratory paralysis.

Onset of symptoms may be delayed. Cholinesterase inhibition sometimes persists for several weeks.

Treatment

Basic aid, decontamination, symptomatic treatment and if necessary administration of antidote.

Antidote: Atropine sulphate, possibly in conjunction with Toxogonin or obidoxime (PAM).

Monitor respiratory, cardiac and central nervous system function. Monitor red blood cell and plasma cholinesterase levels. Administer oxygen if necessary. Watch for pulmonary oedema and delayed neurological symptoms.

Contraindications: Adrenergic derivatives.

SAFE HANDLING INFORMATION

Storage and Transport

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep away from excessive heat, open flames and other sources of ignition.

Refer Dangerous Goods for transport by road or rail according to the Australian Code for the transport of Dangerous Goods by Road and Rail.

Product: **Chemag Omen 290 Insecticide**

Proper shipping name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (contains Omethoate, 1-methoxy-2-propyl acetate)

UN Number: 3017

Class: 6.1

Sub Risk: 3

Packaging group: III

Hazchem code: 2X

Spill and Disposal:

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 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 500mm 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.

Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Do not discharge into drains or sewers.

TOXICITY:

Acute Toxicity – Oral	LD50 rat: approximately 100mg/kg (similar product)
Acute Toxicity – Dermal	LD50 rat: approximately 1000mg/kg (similar product)
Acute Toxicity – Inhalation	LC50 (4h) rat: approximately 0.3mg/L air (aerosol) (<i>omethoate active ingredient</i>)
Skin Irritation	Non irritant (rabbit) (<i>similar product</i>)
Skin Sensitisation	Omethoate is a skin sensitiser (guinea pig)

Chronic: Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. The main health effects from repeated exposure would be toxic symptoms of cholinesterase inhibition. Animal studies with Omethoate have shown no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential. The long term effects in animals noted for the solvent, 1-methoxy-2-propyl acetate, were headaches, dizziness and possible nausea. The solvent was not mutagenic in the Ames test, and did not cause teratological or other developmental effects.

ECOLOGICAL:

Acute Toxicity – Fish	LC50: 30mg/L (96h); golden orfe (<i>Leuciscus idus</i>) LC50: 9.1mg/L (96h); trout (<i>Oncorhynchus mykiss</i>)
Acute Toxicity – Aquatic invertebrates	EC50: 0.022mg/L (48h); <i>Daphnia magna</i>
Acute Toxicity – Other Organisms	IC50: 167.5mg/L (72h); green algae (<i>Scenedesmus subspicatus</i>) LD50: 79.7mg/kg; male Japanese quail LD50: 83.4mg/kg; female Japanese quail
Flammability:	Flammable liquid. Flash point >43°C

CONTACT POINT:

Emergency Contact Number: Office 9368 7444 A/H 0438 922133

This MSDS summarizes 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 should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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.