

Safety Data Sheet

Divap[®]

Date of issue: 30th March, 2011

1) Identification of Substance:		
Product name:	Divap	
Active Ingredient(s):	Dichlorvos	
ACVM Approval:	P6080	
ERMA Approval:	HSR000213	
Distributed by:	Adria Crop Protection P.O. Box 535 Kumeu 1250, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adriacp.co.nz	
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766	
2) Hazards Identification:		
HSNO Classifications:	6.1A, 6.3B, 6.4A, 6.5B, 6.7B, 6.9A, 9.1A, 9.3A, 9.4A	
Risk Phrases	Toxic by inhalation, in contact with skin, and if swallowed.	
Environmental hazard	Very toxic to aquatic organisms.	
Primary route of exposure	Route of exposure is inhalation and skin and eye contact.	
Symptoms relating to use	Product and spray is poisonous if absorbed by skin contact or inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect.	
- Inhalation	Data suggests that the product should be considered to be toxic by inhalation. Inhalation is likely to result in poisoning.	
- Skin contact	Data suggests that the product should be classified as toxic by skin absorption. Skin contact may cause poisoning.	
- Eye contact	Data suggests that this product should be classified as possibly irritating to the eyes.	
- Ingestion	Data suggests that the product should be considered to be toxic by ingestion. May cause severe problems if immediate treatment is not sought.	
3) Composition Details:		
Chemical identity:	Dichlorvos	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Dichlorvos	62-73-7	>90
Emulsifier	Secret	To 100

General Information:	If poisoning occurs, for advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately. Atropine tablets 0.6mg should be available in the area where this product is used, or in a nearby unlocked medicine cabinet. If swallowed, give one atropine tablet every 5 minutes until dryness of the mouth occurs - if poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.
Skin contact:	If this product comes into contact with skin, wash skin for at least 15 minutes with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again. See above if poisoning occurs.
Eye contact:	If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained.
Ingestion:	Rinse mouth. Take to hospital.
Inhalation:	If mists, dusts or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately. See above if poisoning occurs. Eye wash baths and deluge showers should be available where this product is being used.
Note to Physician:	Treat symptomatically. Note the nature of this product.
5) Fire-Fighting Measures:	
Flammable Class	This product is not flammable.
Extinguishing media	Carbon dioxide, dry chemical, foam, water fog.
Special exposure hazards	Wear full protective clothing including self contained breathing apparatus.
Unusual fire & Explosion hazards	Decomposition products are toxic and corrosive. There is little risk of an explosion from this product if involved in a fire.

6) Accidental Release Measures:

Spills and disposals:	In event of a major spill, prevent spillage from entering drains or water courses. Call Fire Brigade or emergency services. Wear full protective clothing including self contained breathing apparatus. Stop leak if safe to do so, and contain spill. Absorb onto vermiculite or other absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. After spills, wash area, preventing runoff from entering drains. If material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before reuse.
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7) Handling & Storage:

General	Safety Phrases are: S2, S13, S44. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).
Engineering Controls	In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.
Storage and transport	This product is classed as UN3018, Dangerous Goods Class 6.1 Toxic Substances. Proper Shipping name is ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC. Class 6 Toxic Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids where the Flammable Liquid is nitromethane), 5.1 (Oxidising Agents where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides where the Toxic Substances are Fire Risk Substances), 8 (Corrosive Substances where the Toxic Substances are cyanides and the Corrosives are acids), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes, 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Toxic Gases), 3 (Flammable liquids, except where the flammable liquid is nitromethane), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents except where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides except where the Toxic Substances are Fire Risk Substances), 7 (Radioactive Substances), 8 (Corrosive Substances except where the Toxic Substances are cyanides and the Corrosives are acids), 9 (Miscellaneous Dangerous Goods) Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with water or acids.

8) Exposure Control / Personal Protection:






Exposure Standards	A time weighted average (TWA) has been established for Dichlorvos, present in significant quantities in this product. This value is 0.9mg/m ³ . The corresponding STEL level is "not set". 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. See ingredients section on page 1 of this data sheet. The ADI (Acceptable Daily Intake) for Dichlorvos is set at 0.0005mg/kg/day. The corresponding NOEL (No-observable - effect-level) is set at 0.05mg/kg/day. Values taken from Australian ADI List, May 1998.
Personal protection	Avoid contact with eyes and skin. Do not inhale spray mist. Obtain an emergency supply of atropine tablets 0.6mg. When opening the container and using in enclosed areas wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves, goggles and half-face respirator with combined dust and gas cartridge. If product gets on skin, immediately wash area with soap and 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, goggles, respirator or face piece and contaminated clothing
- Safety Boot	Wearing safety boots would be advisory.
General hygiene	Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using


9) Physical & Chemical Properties:

Physical state at 20 °C:	Oily liquid
Colour:	Colourless to straw.
Odour:	Characteristic pungent odour.
Melting point/softening point:	No data
Density:	-
Volatile materials:	No data. Expected to be nil.
pH:	-
Flash point [°C]:	Not flammable.
Ignition Temperature: [°C]:	-
Specific gravity:	1.36 approx.
Corrosiveness:	Not corrosive.
Solubility in water	Forms emulsions.

10) Stability & Reactivity:

Stability:	Stable.
Polymerisation:	Will not polymerise.
Decomposition Products:	Carbon dioxide, carbon monoxide, hydrogen chloride gas, chlorides, oxides of phosphorus, water.

Materials to avoid:	Strong acids, strong bases, strong oxidising agents.
11) Toxicological Information:	
Acute toxicity:	Acute Oral LD50 (Rat) 50 mg/kg
	Acute Percutaneous LD50 (Rat) 90 mg/kg
Inhalation:	Inhalation LC50 (4 hr) (Rat) > 0.34 mg/l
12) Ecological Information:	
	Acute Oral LD50 (Bobwhite quail) 24 mg/kg LC50 (96 hr) (Rainbow trout) 0.2 mg/l LC50 (48 hr) (Daphnia) 0.19 µg/l Algae EC50 (5 day) 52.8 mg/l Acute Oral LD50 (Bee) 0.29 µg/bee
13) Disposal Considerations:	
Disposal: 	Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.
14) Transportation Information:	
Rail/road (RID/ADR):	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC N.O.S.(DICHLORVOS) Class: 6.1 Packaging Group II UN: 3018  
Sea (IMDG code):	ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC N.O.S.(DICHLORVOS) Class: 6.1 Packaging Group II UN: 3018 Marine Pollutant  

Air (ICAO/IATA):	<p>ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC N.O.S.(DICHLORVOS) Class: 6.1 Packaging Group II UN: 3018</p> 
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15) Regulatory Information:

Approved handlers:	This product must be under the care of an approved handler during use.
Tracking:	Yes.
ACVM controls:	See www.nzfsa.govt.nz/acvm/ for registration conditions.

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