


Safety Data Sheet

Divap®

1) Identification of Substance:	
Product name:	Divap
Active Ingredient(s):	Dichlorvos 1140 g/litre
ACVM Approval:	P6080
EPA Approval:	HSR000213
Distributed by:	Adria Crop Protection P.O. Box 535, Kumeu 0841, Auckland Ph: 09-412-9817 Fax: 09-412-9807 www.adria.nz
Emergency Number: National Poisons and Hazchem Information Centre	0800 734 607 (24hr)3 0800 POISON (0800 764 766)
2) Hazards Identification:	
	
HSNO Classifications:	6.1B (D), 6.1B (I), 6.1C (O), 6.3B, 6.4A, 6.5B, 6.6A, 6.7B, 6.9A (I), 6.9B (D), 9.1A, 9.2D, 9.3A, 9.4A
Signal Word:	Danger
Hazard Statement Codes:	
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H351	Suspected of causing cancer.
H370/H372/H371/H373	Causes damage to organs from single, prolonged or repeated exposure.

H410	Very toxic to aquatic life with long lasting effects.
H423	Harmful to the soil environment.
H431	Very toxic to terrestrial vertebrates.
H441	Very toxic to terrestrial invertebrates.
Prevention Statement Codes:	
P102	Keep out of reach of children.
P103	Read label before use
P262	Do not get in eyes, or skin, or on clothing.
P264	Wash entire body thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P260/P261	Do not breathe fume, mist or spray
P271	Use only outdoors or in a well-ventilated area.
P284	Wear respiratory protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P201/P202/P281	Suspected mutagen and carcinogen: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
P273	Avoid release to the environment.
Response Statement Codes:	
P101	If medical advice is needed, have product container or label at hand.
P302 + P350/P302 + P352	IF ON SKIN: Gently wash with plenty of soap and water.
P310	Immediately call a POISON CENTRE or doctor/physician.
P320/P321	Specific treatment is urgent. See Section 4). First Aid Measures.
P322	For specific measures, see section 4, First-Aid.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P304+P340	

P310	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P320	Immediately call a POISON CENTRE or doctor/physician.
P301 + P310	Specific treatment is urgent, refer to section 4, First-Aid.
P330	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P321	Rinse mouth.
P332 + P313/P333 + P313	For specific treatment refer to section 4, First-Aid.
P305 + P351 + P338	If skin irritation or rash occurs: Get medical advice/attention
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
P337+ P313	
P321	If eye irritation persists: Get medical advice/attention
P308+P313/P307+P311	For specific treatment refer to section 4, First-Aid.
/P314/P309+P311	IF exposed or concerned, or if you feel unwell: Call a
P391	POISON CENTRE or doctor/physician.
	Collect spillage.
Storage Statement Code:	
P403 + P233	
	Store in a well-ventilated place. Keep container tightly
P405	closed.
	Store locked up

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


4) First Aid Measures:

General Information:	Divap is an organophosphorus insecticide, which inhibits cholinesterase activity, and interferes with nerve pulse transmission. Onset of symptoms may be delayed for several hours. Atropine is the specific antidote and may be given immediately by qualified staff, at a level of 2 - 5mg (intravenously or intramuscularly), every 20 minutes until atropinisation occurs. Considerable amounts of atropine may be necessary. Atropine must NOT be given to cyanosed patients; administer oxygen first. Do NOT use opiates or barbiturates. If convulsions occur, administer diazepam
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	(10mg intravenously). Take venous blood sample for determination of blood cholinesterase activity. Cholinesterase reactivators (Pralidoxime) should, if possible, be given at the same time as atropine. They are not effective after 24 hours post exposure and are not substitutes for atropine. Pralidoxime should be administered at: Mild poisoning: 1g in 2 - 3ml water (intramuscularly), Severe poisoning: 2g in 30ml water (intravenously)
Skin contact:	If this product comes into contact with skin, gently 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. Immediately call a POISON CENTRE or doctor/physician.
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned, or if you feel unwell: call a POISON CENTRE or doctor/physician.
Ingestion:	If swallowed, or if any of the above symptoms occur, immediately call a POISON CENTRE or doctor/physician. Take to hospital without delay. Rinse mouth but, do not induce vomiting. Keep strictly at rest as continued movement enhances toxic effects.
Inhalation:	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician. See above if poisoning occurs.
Workplace Facilities.	Eye wash baths and deluge showers should be available where this product is being used
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.
Hazchem Code:	2X
6) Accidental Release Measures:	
Personal precautions:	Use protective clothing, refer to Section 8). Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Clean up methods	Wear appropriate protective clothing as per Section 8). Prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material.
Disposal procedures:	Dispose of waste safely, according to local Council regulations.

7) Handling & Storage:	
General	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). Suspected mutagen (may cause genetic defects) and carcinogen (may cause cancer): Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
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.
Record Keeping:	A record of each application must be made. This must include: <ul style="list-style-type: none"> - The measures implemented to comply with the REI - Size of application area and any enclosed space - Location and extent of any Exclusion Zone or Buffer Zone - Application method used

	<ul style="list-style-type: none"> - Quantity of product used by each person during the application - Measures implemented to monitor worker exposure - Where notification was required and who was notified
Exclusion Zone:	For indoor applications only, and Exclusion Zone must be established, from which persons must be excluded (unless wearing personal protective equipment. This zone extends 20m from the outside edge of the building or structure being treated. Persons must be excluded from the start of the application until a minimum of 2 hours after the end of the application.
8) Exposure Control / Personal Protection:	
Exposure	May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye and mild skin irritation. Suspected carcinogen. May cause neurological symptoms (See 'Symptoms of Poisoning' below) from repeated ingestion at high doses. Very toxic to aquatic organisms, terrestrial vertebrates and terrestrial invertebrates. Suspected mutagen (may cause genetic defects) and carcinogen (may cause cancer): Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
PERSONAL PROTECTIVE (PPE) AND RESPIRATORY PROTECTIVE EQUIPMENT (RPE):	Avoid contact with eyes and skin. Avoid inhalation of vapour or spray mist. When mixing or applying, wear chemical resistant overalls, chemical resistant boots and gloves, chemical resistant footwear plus socks, chemical resistant head gear, eye protection and respirator (organic vapour and particulate matter). Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Avoid handling, mixing or use of the product or container near heat, flame or other source of ignition. Do not use near air vents or ducts. Apply with well-maintained and calibrated spray equipment.
EQUIPMENT:	Apply using calibrated and maintained equipment in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409). Divap must be applied via ground-based methods only.
SPRAY DRIFT:	The person applying the substance must not cause adverse effects beyond the boundary of the treated property and must also avoid adverse effects from spray drift occurring. Mitigation measures employed must be recorded as part of the application records.
BEEES:	THIS PRODUCT IS VERY TOXIC TO BEES. Do not apply this product to any plant or tree likely to be visited by bees: <ol style="list-style-type: none"> a) At the time of application; or b) Immediately after application until spray has dried; or c) In areas where bees are foraging.
- Safety Boot	Wearing safety boots would be advised.

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 (Dichlorvos) Class: 6.1 Packaging Group II UN: 3018 Hazchem Code 2X
Sea (IMDG code):	
Air (ICAO/IATA):	
Marine Pollutant, harmful to the soil environment, very toxic to terrestrial vertebrates and invertebrates.	

15) Regulatory Information:

Certified handlers:	This product must be under the care of a certified handler. Records of use must be kept.
Tracking:	Yes.
ACVM controls:	See www.foodsafety.govt.nz for registration conditions.

16) Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the product's properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed