

# OzCrop

Chemwatch: 5312-47

Version No: 5.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Chemwatch Hazard Alert Code: 3 Issue Date: 10/12/2021

Print Date: 27/09/2022 S.GHS.AUS.EN.E

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

Product name	OzCrop Pirimicarb 500 WG Aphicide	
Chemical Name	lot Applicable	
Synonyms	APVMA Code: 68494	
Proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC (contains pirimicarb)	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

#### Relevant identified uses of the substance or mixture and uses advised against

fied uses	Agricultural aphicide. Use according to manufacturer's directions.
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### Details of the manufacturer or supplier of the safety data sheet

Registered company name	OzCrop
Address	G13/25 Solent Circuit Norwest NSW 2153 Australia
Telephone	+61 2 8123 0170
Fax	+61 2 8123 0171
Website	http://www.ozcrop.com.au
Email	orders@ozcrop.com.au

#### Emergency telephone number

Relevant identi

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Association / Organisation	In Transport Emergency DIAL 000	
Emergency telephone numbers	1800 033 111 (24 hours - Australia wide)	
Other emergency telephone numbers	Not Available	

## **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Poisons Schedule	S6
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 3, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2B, Acute Toxicity (Inhalation) Category 4, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)				
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Signal word

Danger

#### Hazard statement(s)

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H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H320	Causes eye irritation.
H332	Harmful if inhaled.

H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

## Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and protective clothing.
P261	Avoid breathing dust/fumes.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

#### Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P330	Rinse mouth.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.	
P391	Collect spillage.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

## Precautionary statement(s) Storage

P405 Store locked up.

#### Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

## **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
23103-98-2	50	pirimicarb
Not Available		(500g/kg)
Not Available	balance	Ingredients determined not to be hazardous
Legend:	<ol> <li>Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&amp;L * EU IOELVs available</li> </ol>	

## **SECTION 4 First aid measures**

Description of first aid measures		
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>	
Skin Contact	If product comes in contact with skin:  Contact a Poisons Information Centre or a doctor.  DO NOT allow clothing wet with product to remain in contact with skin, strip all contaminated clothing including boots.  Quickly wash affected areas vigorously with soap and water.  DO NOT give anything by mouth to a patient showing signs of narcosis, i.e. losing consciousness.  Give atropine if instructed.  DO NOT delay, get to a doctor or hospital quickly.	
Inhalation	<ul> <li>If spray mist, vapour are inhaled, remove from contaminated area.</li> <li>Contact a Poisons Information Centre or a doctor at once.</li> <li>Lay patient down in a clean area and strip any clothing wet with spray.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> </ul>	

	<ul> <li>DO NOT give anything by mouth to a patient showing signs of narcosis, i.e. losing consciousness.</li> <li>Give atropine if instructed.</li> <li>Get to doctor or hospital quickly.</li> </ul>
Ingestion	If swallowed:  Contact a Poisons Information Centre or a doctor at once.  If swallowed, activated charcoal may be advised.  Give atropine if instructed.  REFER FOR MEDICAL ATTENTION WITHOUT DELAY.  In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.  If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided.  Further action will be the responsibility of the medical specialist.  If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

#### Indication of any immediate medical attention and special treatment needed

Following acute or short term repeated exposures to carbamates:

- Carbamylation of acetylcholinesterase produces symptoms of muscarinic and nicotinic poisoning. Clinical effects disappear within 24 hours following spontaneous, in vivo, hydrolysis of the complex. Symptoms develop within 15 minutes to 2 hours.
- Access the adequacy of the airway and ventilation and use oxygen, suction, intubation, artificial ventilation, intravenous lines and cardiac monitors as needed.
- Usual methods of decontamination (lpecac / lavage / charcoal / cathartics) may be used when the patient presents within 2-4 hours after exposure. When lpecac Syrup is used the patient must be observed closely to prevent aspiration.
- Atropine is the antidote of choice. Pralidoxime [and other oximes] usually is unnecessary and, in any case, may reduce the effectiveness of atropine. [Mild cases should be given 1 to 2 mg intramuscularly every 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear. Severe cases should given 2 to 4 mg intramuscularly every 10 minutes until fully atropinized, then every 30 to 60 minutes to maintain the effect for at least 12 hours Incitec] [Ellenhorn and Barceloux: Medical Toxicology]

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

Special hazards arising from th	e substrate or mixture
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>Fight fire from a safe distance, with adequate cover.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> <li>If containment of runoff is not possible, consider allowing fire to burn-out. Use of water may present a significant pollution hazard.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and flercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>In the same way as gases and vapours, dusts in the form of a cloud are only ignitable over a range of concentrations; in principle, the concepts of lower explosive limit (LEL) and upper explosive limit (UEL) are applicable to dust clouds but only the LEL is of practical use; - this is because of the inherent difficulty of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC).</li> <li>When processed with flammable liquids/vapors/mists, ignitable (hybrid) mixtures may be formed with combustible dusts. Ignitable mixtures will increase the rate of explosion pressure rise and the Minimum Ignition Energy (the minimum amount of energy required to ignite dust clouds - MIE) will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture w</li></ul>

A sudden release of statically charged materials from storage or process equipment, particularly at elevated temperatures and/ or pressure,

	<ul> <li>may result in ignition especially in the absence of an apparent ignition source.</li> <li>One important effect of the particulate nature of powders is that the surface area and surface structure (and often moisture content) can vary widely from sample to sample, depending of how the powder was manufactured and handled; this means that it is virtually impossible to use flammability data published in the literature for dusts (in contrast to that published for gases and vapours).</li> <li>Autoignition temperatures are often quoted for dust clouds (minimum ignition temperature (MIT)) and dust layers (layer ignition temperature (LIT)); LIT generally falls as the thickness of the layer increases.</li> <li>Combustion products include:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> </ul>
HAZCHEM	2X

## **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures See section 8

# **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up waste regularly and abnormal spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (HEPA type) (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Dampen with water to prevent dusting before sweeping.</li> <li>Place in suitable containers for disposal.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 Handling and storage

#### Precautions for safe handling

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT est, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with scap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)</li> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> <li>Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in (0.8 mm) thick can be sufficient to warrant immediate cleaning of the area.</li> <li>Do not use air hoses for cleaning.</li> <li>Minimise dry sweeping to avoid gen</li></ul>

	<ul> <li>plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges.</li> <li>Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.</li> <li>Do NOT cut, drill, grind or weld such containers.</li> <li>In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
onditions for safe storage, in	cluding any incompatibilities
Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> <li>Glass container is suitable for laboratory quantities</li> <li>For low viscosity materials</li> <li>Drums and jerricans must be of the non-removable head type.</li> <li>Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):</li> <li>Removable head packaging;</li> <li>Cans with friction closures and</li> <li>Iow pressure tubes and cartridges</li> <li>may be used.</li> </ul>
	- Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages *

In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage \*.

* unless th	e outer	packag	ing is a c	close fitti	ng moulde	ed plast	ic box and t	he substand	ces are no	ot incomp	atible with th	he plasti	c.	

	Carbamates are incompatible with strong acids and bases, and especially incompatible with strong reducing agents such as hydrides.
Storage incompatibility	Flammable gaseous hydrogen is produced by the combination of active metals or nitrides with carbamates.

atibility
 Flammable gaseous hydrogen is produced by the combination of active metals or nitrides with carbamates.
 Strongly oxidising acids, peroxides, and hydroperoxides are incompatible with carbamates.

## **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

## Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Not Available

### Emergency Limits

Emergency Limits						
Ingredient	TEEL-1	TEEL-2		TEEL-2		TEEL-3
OzCrop Pirimicarb 500 WG Aphicide	Not Available	Not Available		Not Available		
Ingredient	Original IDLH		Revised IDLH			
pirimicarb	Not Available		Not Available			

## Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
pirimicarb	E	≤ 0.01 mg/m³
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker hea	cess is an occupational exposure band (OEB), which corresponds to a

#### Exposure controls

Appropriate engineering controls	<ul> <li>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:</li> <li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li> <li>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</li> <li>Employers may need to use multiple types of controls to prevent employee overexposure.</li> <li>Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.</li> <li>Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.</li> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of:</li> <li>(a): particle dust respirators, if necessary, combined with an absorption cartridge;</li> <li>(b): filter respirators with absorption cartridge or canister of the right type;</li> <li>(c): fresh-air hoods or masks</li> </ul>

	Type of Contaminant:		Air Speed:
	direct spray, spray painting in shallow booths, drum filling, o	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500
	generation into zone of rapid air motion)		ft/min)
	grinding, abrasive blasting, tumbling, high speed wheel ger of very high rapid air motion).	nerated dusts (released at high initial velocity into zone	2.5-10 m/s (500-2000 ft/min)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	Simple theory shows that air velocity falls rapidly with distanc with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatin 4-10 m/s (800-2000 ft/min) for extraction of crusher dusts ger producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	le cases). Therefore the air speed at the extraction point s ng source. The air velocity at the extraction fan, for examp nerated 2 metres distant from the extraction point. Other r	should be adjusted, le, should be a minimu nechanical consideratio
Personal protection			
Eye and face protection	and adsorption for the class of chemicals in use and an a their removal and suitable equipment should be readily a	reated for each workplace or task. This should include a n account of injury experience. Medical and first-aid person available. In the event of chemical exposure, begin eye irri d be removed at the first signs of eye redness or irritation	eview of lens absorption nel should be trained in gation immediately and - lens should be remove
Skin protection	See Hand protection below		
	<ul> <li>Wear safety footwear or safety gumboots, e.g. Rubber NOTE:</li> <li>The material may produce skin sensitisation in predispos equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and we The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of several and has therefore to be checked prior to the application. The exact break through time for substances has to be obtair making a final choice.</li> <li>Personal hygiene is a key element of effective hand care. Glo washed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usage frequency and duration of contact,</li> <li>chemical resistance of glove material,</li> <li>glove thickness and</li> <li>dexterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 3</li> <li>When prolonged or frequently repeated contact may occur, minutes according to EN 374, AS/NZS 2161.10.1 or national</li> </ul>	atch-bands should be removed and destroyed. material, but also on further marks of quality which vary is a substances, the resistance of the glove material can not ned from the manufacturer of the protective gloves and ha oves must only be worn on clean hands. After using glove moisturiser is recommended. Inportant factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent). a glove with a protection class of 5 or higher (breakthroug	rom manufacturer to be calculated in advan as to be observed when as, hands should be

	Overalls.
	Eyewash
ther protection	Barrier ci
	Skin clea
	Ensure the the second secon

ewash unit rrier cream.

n cleansing cream.

sure that there is a supply of atropine tablets on hand

+ Ensure all employees have been informed of symptoms of cholinesterase poisoning and that the use of atropine in first aid is understood .

#### **Respiratory protection**

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Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	-AUS / Class1 P2	-
up to 50	1000	-	-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	-2 P2
up to 100	10000	-	-3 P2
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

· Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

· Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program. · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

#### **SECTION 9** Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Off-white granular solid with no odour; partially soluble in water.		
Physical state	Divided Solid	Relative density (Water = 1)	0.61 (bulk)
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	*92 (pirimicarb)	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Negligible
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

Hazardous decomposition products

See section 5

## **SECTION 11 Toxicological information**

#### Information on toxicological effects

Inhaled	Inhalation of dusts, generated by the material, during the course of normal handling, may be harmful. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. Poisoning due to cholinesterase inhibitors causes symptoms such as increased blood flow to the nose, watery discharge, chest discomfort, shortness of breath and wheezing. Other symptoms include increased production of tears, nausea and vomiting, diarrhoea, stomach pain, involuntary passing of urine and stools, chest pain, breathing difficulty, low blood pressure, irregular heartbeat, loss of reflexes, twitching, visual disturbances, altered pupil size, convulsions, lung congestion, coma and heart failure. Symptoms of carbamate poisoning are similar to that of organophosphate poisoning, however, recovery from carbamate poisoning is quicker and				
Ingestion	generally less likely to be cause death. <b>Toxic effects</b> may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual. Ingestion may produce nausea, vomiting, depressed appetite, abdominal cramps, and diarrhoea.				
Skin Contact	Skin contact with the material may produce toxic effects; systemic effects may result following absorption. There may be sweating and muscle twitches at site of contact. Reaction may be delayed by hours. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterised by a temporary redness of the conjunctiva (similar to windburn). Direct eye contact can produce tears, eyelid twitches, pupil contraction, loss of focus, and blurred or dimmed vision. Dilation of the pupils occasionally occurs.				
Chronic	Skin contact with the material is more likely to cause a se Substance accumulation, in the human body, may occur Repeated or prolonged exposures to cholinesterase inhil to these substances may exhibit impaired memory and lo apathy, emotional liability, speech difficulties, headache,	ncer or mutations, but there is not enough data to make an assessment. ensitisation reaction in some persons compared to the general population. and may cause some concern following repeated or long-term occupational exposure. bitors produce symptoms similar to acute effects. In addition workers exposed repeated oss of concentration, severe depression and acute psychosis, irritability, confusion, spatial disorientation, delayed reaction times, sleepwalking, drowsiness or insomnia. use changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5			
	τοχιςιτγ	IRRITATION			
OzCrop Pirimicarb 500 WG Aphicide	Not Available	Not Available			
	ΤΟΧΙΟΙΤΥ	IRRITATION			
	dermal (rat) LD50: >500 mg/kg <sup>[2]</sup>	Eye (rabbit): mild			
pirimicarb	Oral (Pig) LD50; 20 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
		Skin (rabbit): non-irritating *			
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>			

Oral (dog) LD50: 100-200 mg/kg \* NOEL (None) 2: y for dogs, 1.8 mg/kg daily; Carbamate pesticides are less dangerous than organophosphorus pesticides. It requires higher dose to produce toxicity or mortality. However, its toxicity via skin contact is low to moderate. Its rapid metabolism causes acute toxic effect but subsequent rapid recovery. It may cause skin and eye irritation, increased pigmentation, sperm abnormalities, sensitization, cancer, mutations and genetic and foetal defects. It is easily absorbed through the skin, mucous membranes, airway and digestive tract. It can cause changes to the function of the blood-making system and the liver and kidney, at higher concentrations it can cause degeneration of the liver, kidney and testes. Its metabolites are detectable in urine. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce PIRIMICARB conjunctivitis. NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA. [\* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council] ADI 0.02 mg/kg b.w. \* Toxicity Class WHO II; EPA II \* for rats 250 mg/kg diet (12.5 mg/kg daily) \* Not carcinogenic; no adverse reproductive effects. \* Not a skin sensitiser in guinea pigs. \* Acute Toxicity -Carcinogenicity ~ × Skin Irritation/Corrosion × Reproductivity Serious Eye Damage/Irritation ~ STOT - Single Exposure × **Respiratory or Skin** × ~ STOT - Repeated Exposure sensitisation Mutagenicity × Aspiration Hazard ×

Legend: 🗙

Data either not available or does not fill the criteria for classification
 Data available to make classification

Toxicity

OzCrop Pirimicarb 500 WG Aphicide Not Available	Endpoint	Test Duration (hr)	Species		Value	Source
		Not Available	Not Available Not Availab		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	•	Source
pirimicarb	LC50	96h	Fish	29mg	29mg/l	
	EC50	96h	Algae or other aquatic plants	145.2	145.2mg/L	
	EC50	48h	Crustacea	0.006	0.006-0.011mg/L	
	EC50(ECx)	24h	Crustacea	0.097	0.097mg/L	
Legend:	Ecotox databas	1. IUCLID Toxicity Data 2. Europe ECHA Reg e - Aquatic Toxicity Data 5. ECETOC Aquatic ion Data 8. Vendor Data				

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

LOW (KOC = 305.5)

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
pirimicarb	HIGH	HIGH

## **Bioaccumulative potential**

pirimicarb

Ingredient	Bioaccumulation
pirimicarb	LOW (LogKOW = 2.2662)
Mobility in soil	
Ingredient	Mobility

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise: <ul> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>Consult manufacturer for recycling options.</li> <li>Consult Land Waste Management Authority for disposal options.</li> <li>For disposal of residue:</li> <li>Add with stirring to strongly alkaline solution of calcium hypochlorite. Let stand for 24 hours and then route cyanate to sewage treatment plant.</li> </ul> </li> <li>OR <ul> <li>Mix with flammable solvent and spray into incinerator equipped with afterburner and scrubber.</li> <li>Decontainers to drum reconditioner or recycler.</li> </ul> </li> <li>OR <ul> <li>Puncture containers to prevent reuse and bury at an authorised landfill.</li> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> </ul> </li> </ul>

## **SECTION 14 Transport information**

Labels Required	
	3990 6
Marine Pollutant	
HAZCHEM	2X

## Land transport (ADG)

,			
UN number	2757		
UN proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC (contains pirimicarb)		
Transport hazard class(es)	Class     6.1       Subrisk     Not Applicable		
Packing group	III		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions61 223 274Limited quantity5 kg		

#### Air transport (ICAO-IATA / DGR)

UN number	2757			
UN proper shipping name	Carbamate pesticide, solid, toxic * (contains pirimicarb)			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	6.1 Not Applicable 6L		
Packing group	III			
Environmental hazard	Environmentally hazardous			
	Special provisions Cargo Only Packing Instructions		A3 A5 677	
	Cargo Only Maximum Qty / Pack		200 kg	
Special precautions for user	r Passenger and Cargo Packing Instructions		670	
	Passenger and Cargo Maximum Qty / Pack		100 kg	
	Passenger and Cargo Limited Quantity Packing Instructions		Y645	
	Passenger and Cargo Limited Maximum Qty / Pack		10 kg	

#### Sea transport (IMDG-Code / GGVSee)

UN number	2757				
UN proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC (contains pirimicarb)				
Transport hazard class(es)	IMDG Class     6.1       IMDG Subrisk     Not Applicable				
Packing group	Ш				
Environmental hazard	Marine Pollutant				
Special precautions for user	EMS NumberF-A, S-ASpecial provisions61 223 274Limited Quantities5 kg				

# Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
pirimicarb	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
pirimicarb	Not Available

## **SECTION 15 Regulatory information**

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

## pirimicarb is found on the following regulatory lists

Australia Chemicals with non-industrial uses removed from the Australian Inventory of Chemical Substances (old Inventory)

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  $\mathbf{6}$ 

Chemical Footprint Project - Chemicals of High Concern List

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	No (pirimicarb)		
Canada - NDSL	No (pirimicarb)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (pirimicarb)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	No (pirimicarb)		
USA - TSCA	No (pirimicarb)		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

#### **SECTION 16 Other information**

Revision Date	10/12/2021
Initial Date	25/06/2018

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
5.1	10/12/2021	Classification change due to full database hazard calculation/update.

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit
IDLH: Immediately Dangerous to Life or Health Concentrations
ES: Exposure Standard
OSF: Odour Safety Factor
NOAEL :No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: BioConcentration Factors
BEI: Biological Exposure Index
AIIC: Australian Inventory of Industrial Chemicals
DSL: Domestic Substances List
NDSL: Non-Domestic Substances List
IECSC: Inventory of Existing Chemical Substance in China
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
NLP: No-Longer Polymers
ENCS: Existing and New Chemical Substances Inventory
KECI: Korea Existing Chemicals Inventory
NZIoC: New Zealand Inventory of Chemicals
PICCS: Philippine Inventory of Chemicals and Chemical Substances
TSCA: Toxic Substances Control Act
TCSI: Taiwan Chemical Substance Inventory
INSQ: Inventario Nacional de Sustancias Químicas
NCI: National Chemical Inventory
FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances
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