

OzCrop Indoxacarb 300 WG Insecticide OzCrop Pty Ltd

Chemwatch: 5368-18 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 01/11/2019

Print Date: 16/09/2020

S.GHS.AUS.EN

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

Product Identifier

Product name	OzCrop Indoxacarb 300 WG Insecticide
Synonyms	APVMA Code: 88102
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains indoxacarb)
Other means of identification	Not Available

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

Relevant identified uses	Insecticide.

Details of the supplier of the safety data sheet

Registered company name	OzCrop Pty Ltd
Address	G13/25 Solent Circuit Norwest NSW 2153 Australia
Telephone	(02) 8123 0170
Fax	(02) 8123 0171
Website	http://www.ozcrop.com.au
Email	orders@ozcrop.com.au

Emergency telephone number

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	\$6
Classification ^[1]	Acute Toxicity (Oral) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Sensitizer Category 1, Specific target organ toxicity - repeated exposure Category 1, Acute Aquatic Hazard Category 1, Chronic Aquatic 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)			¥2
---------------------	--	--	----

Signal word Danger

Hazard statement(s)

H302	Harmful if swallowed.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume.
P271	Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

Treaddional y Statement(s) Response		
P321	Specific treatment (see advice on this label).	
P363	Wash contaminated clothing before reuse.	
P302+P352	IF ON SKIN: Wash with plenty of water and soap.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P391	Collect spillage.	
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P330	Rinse mouth.	

Precautionary statement(s) Storage

Not Applicable

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
173584-44-6	30	indoxacarb
Not Available	balance	Ingredients determined not to be hazardous

SECTION 4 First aid measures

Description of first aid measures			
Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 		
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 		
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as traine Perform CPR if necessary. Transport to hospital, or doctor. 		
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. 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. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.		

Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination). For poisons (where specific treatment regime is absent):

- Establish a patent airway with suction where necessary.
- ٠ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- ۶ Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- ٠ Monitor and treat, where necessary, for shock.
- ٠ Anticipate seizures.

DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ٠ Positive-pressure ventilation using a bag-valve mask might be of use.
- ۲ Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications. ۶
- ۶ Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications. ۲
- ۲ Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.
 BRONSTEIN, A.C. and CURRANCE, P.L.
- EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Indoxacarb is extensively metabolised and the metabolites are eliminated in the urine, faeces and bile in rats. The metabolic profile is dose dependent and varies quantitatively between males and females. The metabolic pathway proposed yielded multiple metabolites bearing one of the two ring structures, the indeno or trifluoromethoxyphenyl groups

SECTION 5 Firefighting measures

Extinguishing media

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

Special hazards arising from the 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 firefight

Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 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. 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). Avoid generating dust, particulary 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 (240 micron or less) may burn rapidly and firecely 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 propagates 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 difficult of achieving homogeneous dust clouds at high temperatures (for dusts the LEL is often called the "Minimum Explosible Concentration", MEC). When processed with flammable liquid/svapors/mist.ignitable (hybrid) mixtures may be formed with combustible dust. Ignitable mixtures will be lower than the pure dust in air mixture. The Lower Explosive Limit (LEL) of the vapour/dust mixture will be lower than the individual LELs for the vapors/mists or dusts. A dust explosion may release of large quantities of gaseous products; this in turn creates a subsequent

Issue Date: 01/11/2019 Print Date: 16/09/2020

OzCrop Indoxacarb 300 WG Insecticide

	hydrogen fluoride nitrogen oxides (NOx) other pyrolysis products typical of burning organic material.
HAZCHEM	2Z

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	 Environmental hazard - contain spillage. Clean up waste regularly and abnormal spills immediately. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust. 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). Dampen with water to prevent dusting before sweeping. Place in suitable containers for disposal.
Major Spills	 Environmental hazard - contain spillage. Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

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

SECTION 7 Handling and storage

	 Store in original containers. Keep containers sequely sealed
	Reep containers securely sealed.
	Store in a cool, dry area protected from environmental extremes.
	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
Other information	Observe manufacturer's storage and handling recommendations contained within this SDS.
	For major quantities:
	Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
	• Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with
	local authorities.

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
OzCrop Indoxacarb 300 WG Insecticide	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
indoxacarb	Not Available		Not Available	
Occupational Exposure Banding				

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
indoxacarb	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

Exposure controls

	 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: Process controls which involve changing the way a job activity or process is done to reduce the risk. 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. Employers may need to use multiple types of controls to prevent employee overexposure. 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. 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: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. 				
Appropriate engineering	Type of Contaminant.		All Speed.		
controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2.5 m/s (200-500 f/min.)				
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).				
	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 f/min) for extraction of crusher dusts gen producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	e away from the opening of a simple extraction pipe. Vel e cases). Therefore the air speed at the extraction point a g source. The air velocity at the extraction fan, for example erated 2 metres distant from the extraction point. Other n is, make it essential that theoretical air velocities are mult	ocity generally decreases should be adjusted, ole, should be a minimum of nechanical considerations, tiplied by factors of 10 or		

Page 6 of 11

OzCrop Indoxacarb 300 WG Insecticide

Personal protectio	
Eye and face protectio	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protectio	n See Hand protection below
Hands/feet protectio	 NOTE NOTE Not an analysis of the second secon
	Gioves should be examined for wear and/ or degradation constantly.
Body protectio	See Other protection below • Overalls. • P.V.C apron. • Barrier cream. • Skin cleansing cream. • Eye wash unit.

Respiratory protection

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1	-	PAPR-P1
	Air-line*	-	-
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-

100+ x E	ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

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.

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

White to light brown granule with slight odour; insoluble in water. Brown Appearance Physical state Divided Solid Relative density (Water = 1) Not Available Partition coefficient n-octanol Slight Not Available Odour / water Odour threshold Not Available Not Applicable Auto-ignition temperature (°C) pH (as supplied) Not Applicable **Decomposition temperature** Not Available Melting point / freezing point Not Available Viscosity (cSt) Not Applicable (°C) Initial boiling point and boiling Not Applicable Molecular weight (g/mol) Not Applicable range (°C) Flash point (°C) Taste Not Available Not Applicable Evaporation rate Not Available **Explosive properties** Not Available Flammability **Oxidising properties** Not Available Not Applicable Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Applicable Not Applicable mN/m) Lower Explosive Limit (%) Not Applicable Volatile Component (%vol) Not Available Vapour pressure (kPa) Negligible Gas group Not Available Solubility in water Immiscible pH as a solution (1%) Not Applicable VOC g/L Vapour density (Air = 1) Not Available Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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 ef	fects
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.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. In animals studies a single exposure, by ingestion, to the commercial product containing indoxacarb, produced nasal and ocular discharge, altered righting reflex, incoordination, tremors or convulsions. Neurotoxicity was observed in several studies in both rats and mice. It is characterised by weakness, head tilting, and abnormal gait or mobility with inability to stand. Some of these signs occurred at fatal doses. There was no evidence of susceptibility from either in utero or neonatal exposure in both rat and rabbit young. The NOEL for neurotoxicity was 100 mg/kg for male rats and 12.5 mg/kg for female rats. Indoxacarb produces haemolysis in experimental animals. Ingestion of large amounts may cause alteration in blood cell counts and/ or anaemia. Repeated oral dosing with DPX-MP062 (75% indoxacarb) caused mild haemolytic anaemia and reduced body weight gain in male and female

	rats; additionally, female rats experienced weakness and incoordination while male rats exhibited some changes in clinical chemical measurements. The No-Observed-Effect-Level (NOEL) in a 90-day repeated oral dosing study was 100 ppm for male rats and 25 ppm for female rats. At sufficiently high doses the material may be neurotoxic (i.e. poisonous to the nervous system).		
Skin Contact	Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models). Systemic harm, however, has been identified following exposure of animals by at least one other route and the material may still produce health damage following entry through wounds, lesions or abrasions. 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	There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.		
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ingestion of DPX-JW062 (containing 50% indoxacarb) by dogs for one year produced haemolytic anaemia with secondary histopathological changes and decreased body weights. The NOEL for both male and female dogs was 40 ppm. Effects in male and female rats that were fed DPX-JW062 in their diets for two-years include decreased body weight, in addition females also showed haemolysis. The NOEL for the two-year rat feeding study was 60 ppm for male rats and 40 ppm for female rats. Male and female mice fed DPX-JW062 for 18 months had decreased body weight; in addition, females showed signs of neurotoxicity, some mortality, and a few incidences of histopathological changes in the brain. The NOEL for the 18 month mouse feeding study was 20 ppm in male and female mice. Indoxacarb is not considered to be a reproductive or developmental hazard. The maternal and developmental NOEL is 2 mg/kg. Indoxacarb has been classified as a "not likely" human carcinogen. A developmental study was used to determine the acute dietary endpoint for females 13-50 years of age based on decreased foetal body weight. The compound is negative for mutagenicity. Tests with DPX-MP062 (75% indoxacarb) produce no genetic damage in bacterial or mammalian cell cultures or in animals Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.		
	τοχιζιτγ	IRRITATION	
		Not Available	
	Dermal (Rat) LD50: >5000 mg/kg*l ^{2j}	Not Available	
OzCrop Indoxacarb 300 WG	Dermal (Rat) LD50: >5000 mg/kg* ¹²] Inhalation (Rat) LC50: >5.6 mg/l/4h* ^[2]		
OzCrop Indoxacarb 300 WG Insecticide	Dermal (Rat) LD50: >5000 mg/kg* ^[2] Inhalation (Rat) LC50: >5.6 mg/l/4h* ^[2] Oral (Rat, adult female) LD50: 687 mg/kg* ^[2]		
OzCrop Indoxacarb 300 WG Insecticide	Dermal (Rat) LD50: >5000 mg/kg*l ²] Inhalation (Rat) LC50: >5.6 mg/l/4h*l ²] Oral (Rat, adult female) LD50: 687 mg/kg*l ²] Oral (Rat, adult male) LD50: 1867 mg/kg*l ²]		
OzCrop Indoxacarb 300 WG Insecticide	Dermal (Rat) LD50: >5000 mg/kg*l ²¹ Inhalation (Rat) LC50: >5.6 mg/l/4h*[2] Oral (Rat, adult female) LD50: 687 mg/kg*[2] Oral (Rat, adult male) LD50: 1867 mg/kg*[2] TOXICITY	IRRITATION	
OzCrop Indoxacarb 300 WG Insecticide	Dermal (Rat) LD50: >5000 mg/kg*l ²¹ Inhalation (Rat) LC50: >5.6 mg/l/4h*l ²] Oral (Rat, adult female) LD50: 687 mg/kg*l ²] Oral (Rat, adult male) LD50: 1867 mg/kg*l ²] TOXICITY dermal (rat) LD50: >5000 mg/kg ^{l2}]	IRRITATION Eye (rabbit): moderate	
OzCrop Indoxacarb 300 WG Insecticide indoxacarb	Dermal (Rat) LD50: >5000 mg/kg*l21 Inhalation (Rat) LC50: >5.6 mg/l/4h*l2] Oral (Rat, adult female) LD50: 687 mg/kg*l2] Oral (Rat, adult male) LD50: 1867 mg/kg*l2] TOXICITY dermal (rat) LD50: >5000 mg/kg ^[2] Inhalation (rat) LD50: >5.5 mg/l/4h ^[2]	IRRITATION Eye (rabbit): moderate Skin (rabbit): non-irritating	
OzCrop Indoxacarb 300 WG Insecticide indoxacarb	Dermal (Rat) LD50: >5000 mg/kg*l ²¹ Inhalation (Rat) LC50: >5.6 mg/l/4h*l ²] Oral (Rat, adult female) LD50: 687 mg/kg* ^[2] Oral (Rat, adult male) LD50: 1867 mg/kg* ^[2] TOXICITY dermal (rat) LD50: >5000 mg/kg ^[2] Inhalation (rat) LC50: >5.5 mg/l/4h ^[2] Oral (rat) LD50: 179 mg/kg ^[2]	IRRITATION Eye (rabbit): moderate Skin (rabbit): non-irritating	
OzCrop Indoxacarb 300 WG Insecticide indoxacarb	Dermal (Rat) LD50: >5000 mg/kg*l ^{2]} Inhalation (Rat) LC50: >5.6 mg/l/4h*l ²] Oral (Rat, adult female) LD50: 687 mg/kg* ^[2] Oral (Rat, adult male) LD50: 1867 mg/kg* ^[2] TOXICITY dermal (rat) LD50: >5000 mg/kg ^[2] Inhalation (rat) LC50: >5.5 mg/l/4h ^[2] Oral (rat) LD50: 179 mg/kg ^[2] Oral (rat) LD50: 268 mg/kg ^[2]	IRRITATION Eye (rabbit): moderate Skin (rabbit): non-irritating	
OzCrop Indoxacarb 300 WG Insecticide indoxacarb <i>Legend</i> :	Dermal (Rat) LD50: >5000 mg/kg ^{*[2]} Inhalation (Rat) LC50: >5.6 mg/l/4h ^{*[2]} Oral (Rat, adult female) LD50: 687 mg/kg ^{*[2]} Oral (Rat, adult male) LD50: 1867 mg/kg ^{*[2]} TOXICITY dermal (rat) LD50: >5000 mg/kg ^[2] Inhalation (rat) LC50: >5.5 mg/l/4h ^[2] Oral (rat) LD50: 179 mg/kg ^[2] Oral (rat) LD50: 268 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Substances - Ac. specified data extracted from RTECS - Register of Toxic Effect of comparison of the substance of the	IRRITATION Eye (rabbit): moderate Skin (rabbit): non-irritating ute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise chemical Substances	
OzCrop Indoxacarb 300 WG Insecticide indoxacarb <i>Legend</i> :	Dermal (Rat) LD50: >5000 mg/kg ^{*[2]} Inhalation (Rat) LC50: >5.6 mg/l/4h ^{*[2]} Oral (Rat, adult female) LD50: 687 mg/kg ^{*[2]} Oral (Rat, adult male) LD50: 1867 mg/kg ^{*[2]} TOXICITY dermal (rat) LD50: >5000 mg/kg ^[2] Inhalation (rat) LC50: >5.5 mg/l/4h ^[2] Oral (rat) LD50: 179 mg/kg ^[2] Oral (rat) LD50: 268 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Substances - Acc specified data extracted from RTECS - Register of Toxic Effect of comparison of the second seco	IRRITATION Eye (rabbit): moderate Skin (rabbit): non-irritating ute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise chemical Substances	

for DPX-MP062 (75:25 mixture of two enantiomers) * Dermal sensitiser in guinea pig NOEC rat, for developmental and reproductive effects: 40 mg/kg diet NOEC rat, haemolysis: 8 mg/kg diet * [US EPA Pesticide Fact Sheet]

Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	✓
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🗙 – Data either n	ot available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity Endpoint Test Duration (hr) Species Value Source OzCrop Indoxacarb 300 WG Not Not Not Insecticide Not Available Not Available Available Available Available

	Endpoint	Test Duration (hr)	Species	Value	Source
indoxacarb	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Oncorhynchus mykiss: LC50: 1.8 mg/l, 96 hr. Pseudokirchneriella subcapitata EC50: >1.2 mg/l, 72 hr. Daphnia magna: EC50: 1.7 mg/l, 48 hr. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients No Data available for all ingredients		
Bioaccumulative potential			
Ingredient	Bioaccumulation		
	No Data available for all ingredients		
Mobility in soil			
Ingredient	Mobility		
	No Data available for all ingredients		

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: 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. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Do NOT allow wash water from cleaning or process equipment to enter drains. It may be present to collect all wash water form cleaning or process equipment to form disposal.
riodadi / raokaging disposal	 Where possible retain label warmings and SUS and observe an notices pertaining to the product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
	Where in doubt contact the responsible authority.

SECTION 14 Transport information

Labels Required Marine Pollutant HAZCHEM 2Z

Land transport (ADG)

UN number	3077		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains indoxacarb)		
Transport hazard class(es)	Class 9 Subrisk Not Applicable		
Packing group			
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions 274 331 335 375 AU01 Limited quantity 5 kg		

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packagings;

- (b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L). - Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

Air transport (ICAO-IATA / DGR)

UN number	3077			
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. * (contains indoxacarb)			
Transport hazard class(es)	ICAO/IATA Class9ICAO / IATA SubriskNot ApplicableERG Code9L			
Packing group	Ш	III		
Environmental hazard	Environmentally hazardous			
Special precautions for user	Environmentally hazardous Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		A97 A158 A179 A197 956 400 kg 956 400 kg Y956 30 kg G	-

Sea transport (IMDG-Code / GGVSee)

UN number	3077		
UN proper shipping name	ENVIRONMENTAL	LY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains indoxacarb)	
Transport hazard class(es)	IMDG Class 9 IMDG Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-A, S-F s 274 335 966 967 969 s 5 kg	

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 Regulatory information

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

indoxacarb is found on the following regulatory lists

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 ${\bf 6}$

National Inventory Status

National Inventory	Status
Australia - AIIC	No (indoxacarb)
Australia Non-Industrial Use	No (indoxacarb)
Canada - DSL	No (indoxacarb)
Canada - NDSL	No (indoxacarb)
China - IECSC	No (indoxacarb)
Europe - EINEC / ELINCS / NLP	No (indoxacarb)
Japan - ENCS	No (indoxacarb)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	No (indoxacarb)
USA - TSCA	No (indoxacarb)
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	No (indoxacarb)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date	01/11/2019	
Initial Date	04/09/2019	
SDS Version Summary		
Version	Issue Date	Sections Updated

Version	Issue Date	Sections Updated
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

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 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 This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.