

Crop Smart Pty Ltd

Chemwatch: 5630-15 Version No: 2.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

Product Identifier

Product name	Smart Propiconazole 250 EC Fungicide
Chemical Name	Not Applicable
Synonyms	APVMA Approval Number: 67705
Chemical formula	Not Applicable
Other means of identification	Not Available

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

	For the control of certain fungal diseases of Bananas, Oats, Peanuts, Perennial Ryegrass, Pineapples, Stone Fruit, Sugar cane, Wheat and other
Relevant identified uses	crops as specified in the Directions for Use.
	Use according to manufacturer's directions

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Crop Smart Pty Ltd	
Address	2409/ 4 Daydream Street WARRIEWOOD NSW 2102 Australia	
Telephone	1 1300 783 481	
Fax	lot Available	
Website	www.cropsmart.com.au	
Email	Compliance@cropsmart.com.au	

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	+61 1800 951 288	
Other emergency telephone numbers	+61 3 9573 3188	

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

COMBUSTIBLE LIQUID, regulated for	r storage purposes only	
Poisons Schedule	S6	
Classification ^[1]	Flammable Liquids Category 4, Acute Toxicity (Oral) Category 4, Aspiration Hazard Category 1, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Specific Target Organ Toxicity - Repeated Exposure 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	

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Laber elements	
Hazard pictogram(s)	
Signal word	Danger
Hazard statement(s)	
H227	Combustible liquid.

Page 1 continued...

Chemwatch Hazard Alert Code: 2

Issue Date: 31/08/2023 Print Date: 04/09/2023 S.GHS.AUS.EN.E

Continued...

Smart Propiconazole 250 EC Fungicide

H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H410	Very toxic to aquatic life with long lasting effects.	

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe mist/vapours/spray.	
P271	se only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	
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

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.		
P331	o NOT induce vomiting.		
P370+P378	case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P305+P351+P338	IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P333+P313	skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	f eye irritation persists: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P391	Collect spillage.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P330	Rinse mouth.		

Precautionary statement(s) Storage

• • • •	-	
P405	Store locked up.	
P403+P233	3+P233 Store in a well-ventilated place. Keep container tightly closed.	

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
Various	>60	liquid hydrocarbons
60207-90-1	10-30	propiconazole
Not Available	balance	Ingredients determined not to be hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

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 trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

For petroleum distillates

· In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption - decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration. · Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.

· Positive pressure ventilation may be necessary.

· Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.

· After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.

· Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.

· Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur. Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

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

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 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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. 	
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) hydrogen chloride phosgene nitrogen oxides (NOX) other pyrolysis products typical of burning organic material. May emit corrosive fumes. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.
HAZCHEM	Not Applicable

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	 Slippery when spilt. Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Slippery when spilt. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area 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

Precautions for safe handling	
Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Glass container is suitable for laboratory quantities Metal can or drum Packaging as recommended by manufacturer. 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)
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INGREDIENT DATA

Not Available

Emergency Limits	
Ingredient	TEEL-1

Ingredient	TEEL-1	TEEL-2	TEEL-3
Smart Propiconazole 250 EC Fungicide	Not Available	Not Available	Not Available

Hands/feet protection

Smart Propiconazole 250 EC Fungicide

Ingredient	Original IDLH	Revised IDLH				
liquid hydrocarbons	Not Available Not Available					
propiconazole	Not Available Not Available					
Occupational Exposure Banding	Occupational Exposure Banding					
Ingredient	Occupational Exposure Band Rating					
propiconazole	E	≤ 0.1 ppm				
Notes:	Occupational exposure banding is a process of assigning che adverse health outcomes associated with exposure. The outp range of exposure concentrations that are expected to protect	emicals into specific categories or bands based on a cher out of this process is an occupational exposure band (OE t worker health.	nical's potency and the B), which corresponds to a			
Exposure controls						
Enclosed local exhaust ventilation is required at points of dust, fume or vapour generation. HEPA terminated local exhaust ventilation should be considered at point of generation of dust, fumes or vapours. Barrier protection or laminar flow cabinets should be considered for laboratory scale handling. A fume hood or vented balance enclosure is recommended for weighing/ transferring quantities exceeding 500 mg. When handling quantities up to 500 gram in either a standard laboratory with general dilution ventilation (e.g. 6-12 air changes per preferred. Quantities up to 1 kilogram may require a designated laboratory using fume hood, biological safety cabinet, or approved enclosures. Quantities exceeding 1 kilogram should be handled in a designated laboratory or containment laboratory using appropri- containment technology. Manufacturing and pilot plant operations require barrier/ containment and direct coupling technologies. Barrier/ containment technology and direct coupling (totally enclosed processes that create a barrier between the equipment and the typically use double or split butterfly valves and hybrid unidirectional airflow/ local exhaust ventilation solutions (e.g. powder contair Glove bags, isolator glove box systems are optional. HEPA filtration of exhaust from dry product handling areas is required. Fume-hoods and other open-face containment devices are acceptable when face velocities of at least 1 m/s (200 feet/minute) are a Partitions, barriers, and other partial containment technologies are required to prevent migration of the material to uncontrolled area non-routine emergencies maximum local and general exhaust are necessary. Air contaminants generated in the workplace posses "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contair			changes per hour) is or approved vented ising appropriate barrier/ pment and the room) wder containment booths). uired. minute) are achieved. ontrolled areas. For vace possess varying ve the contaminant. Air Speed:			
	solvent, vapours, etc. evaporating from tank (in still air)		0.25-0.5 m/s (50-100			
	aerosols, fumes from pouring operations, intermittent conta low velocity into zone of active generation)	iner filling, low speed conveyer transfers (released at	0.5-1 m/s (100-200 f/min.)			
Appropriate engineering controls	direct spray, drum filling, conveyer loading, crusher dusts, g motion)	as discharge (active generation into zone of rapid air	1-2.5 m/s (200-500 f/min.)			
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 distance away from the opening of a simple extraction point should be ac accordingly, after reference to distance from the contaminating source. The air velocity at the extraction point should be ac accordingly after reference to distance from the contaminating source. The air velocity at the extraction point. Other mechanical conside producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by fac more when extraction systems are installed or used. The need for respiratory protection should also be assessed where incidental or accidental exposure is anticipated: Dependent or contamination, PAPR, full face air purifying devices with P2 or P3 filters or air supplied respirators should be evaluated. The following protective devices are recommended where exposures exceed the recommended exposure control guidelines by fa 10; high efficiency particulate (HEPA) filters or cartridges 10; high efficiency particulate (HEPA) filters or cartridges 10; oigh efficiency particulate precedure respirator with HEPA filters 50; 100; tinbf.tifting (Tyvek or helmet type) HEPA powered-air pur						
Individual protection measures, such as personal protective equipment	on nal and the second s					
Eye and face protection	 When handling very small quantities of the material eye protection may not be required. For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs: Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Face shield. Full face shield may be required for supplementary but never for primary protection of eyes. 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 the source in the source in the intervent of the intervent of the intervent of the source in the source intervent in the intervent of the intervent of the source intervent intervent of the source intervent in					
Skin protection	n See Hand protection below					
	NOTE: The material may produce skin sensitisation in predispos	ed individuals. Care must be taken, when removing glove	es and other protective			

equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to

	 manulacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can hot be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: i-trequency and duration of contact. chemical resistance of glove material. glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 in national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 in national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time > 20 min For when breakthrough time > 20 min For when glove material glove should be regrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasized that glove bindivers any depending on
	Viden frances infinite later femoving gioves. Protective shoe covers. [AS/NZS 2210] Head covering.
Body protection	See Other protection below
Other protection	 For quantities up to 500 grams a laboratory coat may be suitable. For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs. For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers. For manufacturing operations, air-supplied full body suits may be required for the provision of advanced respiratory protection. Eye wash unit. Ensure there is ready access to an emergency shower. For Emergencies: Vioul suit

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, 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	A-AUS / Class1 P2	-
up to 50	1000	-	A-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P2
up to 100	10000	-	A-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)

+ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Appearance	Light yellow liquid; emulsifies with water.		
Physical state	Liquid	Relative density (Water = 1)	0.96-1.01
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	9-10	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>61	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	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 effects

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation cause further lung damage. Inhalation hazard is increased at higher temperatures.
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. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition 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. Aromatic hydrocarbons may produce sensitivity and redness of the skin. They are not likely to be absorbed into the body through the skin but branched species are more likely to.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: 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. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Based on experience with similar materials, there is a possibility that exposure to the material may reduce fertility in humans at levels which do not cause other toxic effects. Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Oral administration of C20-24 alkenes has not been shown to exhibit significant toxicity in humans. Triazole pesticides are the products of plant, fungal and animal bioconversion. They are toxic and are metabolised into variable products depending on the nature of the parent compound. Studies done with animals showed that they may be slightly irritating to the skin, but severely irritating to the eye. They affect the nervous, reproductive and blood systems, and have been shown to developmental toxicity. Limited evidence

	predicts that they are not likely to cause genetic damage Azole fungicides show broad antifungal activity, and can production.	e but may cause cancers especially of the liver and thyroid. be used to prevent or cure fungal infections. They are therefore important in agricultural	
Smart Branisanarala 250 EC	τοχιζιτγ	IRRITATION	
Smart Propiconazole 250 EC Fungicide	Not Available	Not Available	
	тохісіту	IRRITATION	
liquid hydrocarbons	Not Available	Not Available	
	тохісіту	IRRITATION	
	dermal (rat) LD50: >4000 mg/kg ^[2]	Eye (non-irritating) *	
propiconazole	Inhalation(Rat) LC50: >5.8 mg/L4h ^[2]	Skin (non-irritating) *	
	Oral (Rat) LD50: 550 mg/kg ^[1]		
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 		
Smart Propiconazole 250 EC Fungicide	Epoxidation of double bonds is a common bioactivation has shown that conjugated dienes in or in conjunction we bonds or an acrylic conjugated diene were weak or non- Side effects of antiestrogens include hot flashes, osteop depression and reduced libido. The antiestrogen withdrawal response is a paradoxical i breast cancer. It has been documented rarely with the sight phenomenon indicates that these agents can somehow One proposed theory for the mechanism is that the sens withdrawal, endogenous estrogen acts in the manner of breast cancer cell death. The antioestrogen withdrawal withdrawal, endogenous estrogen acts in the manner of breast cancer cell death. The antioestrogen withdrawal withdrawal syndrome, a phenomenon in which paradoxi. Animal studies indicate that normal, branched and cyclic n-paraffins is inversely proportional to the carbon chain be present in mineral oil, n-paraffins may be absorbed to The major classes of hydrocarbons are well absorbed in hydrocarbons are ingested in association with fats in the gut lymph, but most hydrocarbons partly separate from the tiver. The materials included in the Lubricating Base Oils cate The potential toxicity of a specific distillate base oil is im • The adverse effects of these materials are associated • The potential toxicity of residual base oils in internet outset of the same degree or extent • The potential toxicity of residual base oils contain the molecules and have shown the highest potential cancer are produced from unrefined and mildly refined oils by refined base oils, the highly and severely refined distillal low mammalian toxicity. Testing of residual oils for muta belief that these materials lack biologically active compor Toxicity testing has consistently shown that lubricating b s mutagenic and carcinogenic potential correlates with i extractables (e.g. IP346 assay), both characteristics tha Petroleum contains aromatic (benzene, toluene, ethyl bo detrimental health effects, including, cancer, tumour forr Animal testing shows breathing in petrol	pathway for alkenes. The aliyic epoxides formed were found to be sensitizing. Kesearch the asix-membered ring are prohaptens, while related dienes containing isolated double sensitising. orosis, breast atrophy, vaginal dryness, and vaginal atrophy. In addition, they may cause mprovement in breast cancer caused by discontinuation of antiestrogen therapy for elective estrogen receptor modulators (SERMs) tamoxifen and raloxifene. The result in stimulation of breast cancer tumor progression under certain circumstances. sitivity of breast cells to estrogens shifts with estrogen deprivation, and upon antiestrogen high-dose estrogen therapy in the breast to inhibit breast cancer growth and induce syndrome is analogous to but less common and well-known than the antiandrogen cali improvement in prostate cancer occurs upon discontinuation of antiandrogen therapy. c a greater extent than iso- or cyclo-paraffins. to the carbon chain lengths likely to 2 a greater extent than iso- or cyclo-paraffins. It als and undergo metabolism in the gut cell. The gut cell may play a major role in a savailable to be deposited unchanged in peripheral tissues such as in the body fat stores gory are related from both process and physical-chemical perspectives; rersely related to the severity or extent of processing. It is disultable components, and y related to the degree of processing; to for bedgree of processing; to for bedgree of processing; the did the degree of processing; the base oils is inversely related to the degree of processing; to porcessing and mutation-causing activities. Highly and severely refined distillate base oils emoving or transforming undesirable components, have the largest variation of hydrocarbon -causing and cancer-causing potential has shown negative results, supporting the panets or the components are largely non-bioavailable due to the imolecular size. as es oils have a maailler range of hydrocarbon molecules and have demonstrated very ton-causing and cancer-causing potential has shown negative results, suppor	
PROPICONAZOLE	No sensitisation in guinea pigs * ADI 0.04 mg/kg b.w. * [* The Pesticides Manual, Incorporating The Agroch Council]	loxicity Class WHO III NOEL for dogs 50 ppm (1.9 mg/kg b.w. daily) * nemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection	
Smart Propiconazole 250 EC Fungicide & PROPICONAZOLE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested		
	No significant acute toxicological data identified in literal	ure search.	
Smart Propiconazole 250 EC Fungicide & LIQUID HYDROCARBONS	FOLORENTS: Studies have shown that normal alpha olefins have little minimal skin and eye irritation, but do not sensitise the s nervous system effects, including anaesthesia (loss of s upper airway. The available data indicate normal alpha o kidney.	or no toxic effect on animals except if inhaled in high concentrations. They may produce kin. Exposure to very high levels of C6-C16 normal alpha olefin vapours caused central ensation). If C20+ products are heated, fumes may produce nausea and irritation of the olefins do not cause mutations. Repeated exposure in animals has affected the liver and	

	Olefins are not expected to cause reproductive or developmental toxicity. Based on the available evidence, this group of substances does not cause genetic toxicity. Although there is no available data regarding cancer-causing potential, the structure of these substances does not raise concern for humans.		
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: X – Data either n ✓ – Data availab	ot available or does not fill the criteria for classification le to make classification

SECTION 12 Ecological information

oxicity						
Smart Propiconazole 250 EC Fungicide	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
liquid hydrocarbons	Not Available	Not Available	Not Available		Not Available	Not Available
propiconazole	Endpoint	Test Duration (hr)	Species	Value)	Source
	EC50	72h	Algae or other aquatic plants	0.000)8mg/l	4
	EC50	48h	Crustacea	3.354	I-4.902mg/L	4
	EC50	96h	Algae or other aquatic plants	1.29r	ng/l	4
	LC50	96h	Fish	5.3mg/l		Not Available
	NOEC(ECx)	48h	Fish	0.000)1mg/l	4
Legend:	Extracted from Ecotox databas - Bioconcentrat	1. IUCLID Toxicity Data 2. Europe ECHA Registe se - Aquatic Toxicity Data 5. ECETOC Aquatic Ha ion Data 8. Vendor Data	red Substances - Ecotoxicological Informat zard Assessment Data 6. NITE (Japan) - B	tion - Aqua ioconcentri	tic Toxicity 4. ation Data 7. I	US EPA, METI (Japan

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 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. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

Labels Required

COMBUSTIBLE LIQUID	COMBUSTIBLE LIQUID, regulated for storage purposes only
Marine Pollutant	
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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
liquid hydrocarbons	Not Available
propiconazole	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
liquid hydrocarbons	Not Available
propiconazole	Not Available

Australian Inventory of Industrial Chemicals (AIIC)

SECTION 15 Regulatory information

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

Iiquid hydrocarbons is found on the following regulatory lists Not Applicable

propiconazole 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

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	No (propiconazole)
Canada - NDSL	No (propiconazole)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (propiconazole)
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	No (propiconazole)
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	31/08/2023
Initial Date	31/08/2023

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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