

# SAFETY DATA SHEET

## 1. Identification

Product Identifier:

## Strike Telone™ Soil Fumigant

Other Means of Identification:	1,3-Dichloropropene	
SDS Number	200-AUS-TCA	
APVMA Approval No.:	60921/129419	
Recommended Use:	Active substance/ingredient in p	plant protection products
Restrictions on Use:	For use only by fumigators acc	redited under the Telone™ training program.
Importer / Supplier:	Trical Australia Pty Ltd 4 Gidgie Court, Edinburgh, SA 08 8347 3838	5111, Australia
Emergency Phone No.:	CHEMTREC (Australia) Poisons Information Centre:	Phone <b>02 9037 2994</b> (24 hours) Phone <b>13 1126</b> from anywhere in Australia Phone <b>0800 764 766</b> in New Zealand

## 2. Hazard(s) Identification

Physical Hazards:	Flammable Liquids	Category 3
Health Hazards:	Acute Toxicity, inhalation	Category 3
	Acute Toxicity, dermal	Category 3
	Acute Toxicity, oral	Category 3
	Skin Irritation	Category 2
	Eye Irritation	Category 2A
	Skin Sensitization	Category 1
	Carcinogenicity	Category 2
	STOT, Single Exposure	Category 3 (respiratory)
	Aspiration Hazard	Category 1
Environmental Hazards:	Aquatic, Short-Term (acute)	Category 1
	Aquatic, Long-Term (chronic)	Category 1
Label Elements:	Flame Skull H	lealth Environment
Signal Word:	DANGER	
Hazard Statements:	Flammable liquid and vapour. Toxic if swallowed, in contact wi May be fatal if swallowed and er Causes skin irritation. May cause an allergic skin react Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer.	nters airways.

### Precautionary Statements:

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Prevention	Obtain, read and follow all safety instructions before use.
	Keep away from heat, sparks, open flames, and other ignition sources. No smoking.
	Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges.
	Avoid breathing gas or vapors.
	Use only outdoors or in a well-ventilated area.
	Wear protective gloves, protective clothing, eye protection, and respiratory protection.
	Wash hands and face thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Avoid release to the environment, [except for intended use]
	Contaminated work clothing should not be allowed out of the workplace.
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help.
	IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water. Get emergency medical help immediately.
	IF SWALLOWED: Get emergency medical help immediately. Rinse mouth. Do NOT induce vomiting.
	Specific treatment (see First Aid section of label)
	If skin irritation occurs: Get medical help.
	If skin irritation or rash occurs: Get medical help.
	IF exposed or concerned, get medical advice.
	Get medical help if you feel unwell.
	Take off contaminated clothing and wash it before reuse.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.
	In case of fire: Use fire extinguisher to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local / regional / national / international regulations.
Hazard(s) Not Otherwise Classified (HNOC):	For product packaged in cylinders:
	Do not spray on an open flame or other ignition source.
	In case of leakage, eliminate all ignition sources.
	Stop leak, if safe to do so.
	In case of fire: Evacuate area. Fight fire remotely due to the risk of cylinder rupture.

## 3. Composition/Information on Ingredients

Ingredients	Common Name and Synonyms	CAS Number	Concentration by Weight %
1,3-Dichloropropene	Telone™	542-75-6	100

Product label will reflect nominal active ingredient percentages.

## 4. First Aid Measures

Description of Necessary First Aid Measures:

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Inhalation	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth, use rescuer protection (pocket mask etc.). Call a Poisons Information Centre or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.
Skin Contact	Take off immediately all contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a Poisons Information Centre or doctor for treatment advice. Suitable emergency safety shower facility should be immediately available.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a Poisons Information Centre or doctor for treatment advice. Suitable emergency eye wash facility should be immediately available.
Ingestion	Seek medical attention immediately. Do NOT induce vomiting. rinse mouth thoroughly with water and contact a Poisons Information Centre, or call a doctor at once.
Symptoms Caused by Exposure:	Aside from the information found in this Section 4, any additional important symptoms and effects are described in Section 11: Toxicology Information.
Medical Attention and Special Treatment:	<b>Notes to physician:</b> Skin contact may aggravate preexisting dermatitis. Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Respiratory symptoms, including pulmonary oedema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Because rapid absorption may occur through the lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Animal data indicates that this material is a potential skin sensitiser. However, skin sensitization has not been encountered among employees involved in the manufacture of this material. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
General Advice:	Aerate contaminated clothing in a secure area downwind and away from people. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Call the Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have the Safety Data Sheet (SDS), and if available, the product container or label with you when calling a Poisons Information Centre or doctor, or going for treatment. First Aid responders should pay attention to self-protection and use recommended protective clothing (chemical resistant gloves, splash protection). If potential for
5. Fire-Fighting Measures	exposure exists refer to Section 8 for specific personal protective equipment.
5. Fire-Fighting Measures	
Suitable Extinguishing Media:	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function. Water fog, applied gently may be used as a blanket for fire extinguishment.
Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher, as this may not be effective to extinguish fire.
Specific Hazards Arising from the Chemical:	<b>Hazardous combustion products:</b> During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Hydrogen chloride. Carbon monoxide. Carbon dioxide.
	<b>Unusual Fire and Explosion Hazards:</b> Container may rupture from gas generation in a fire situation. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable mixtures may exist within the vapour space of containers at room temperature. Flammable concentrations of vapour can accumulate at temperatures above flash point; see Section 9.

Special Protective Equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). for Firefighters: Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with selfcontained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections. Precautions for Firefighters: Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimise property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the

"Ecological Information" sections of this SDS.

### 6. Accidental Release Measures

	Personal Precautions, Protective Equipment, and	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Keep personnel
	Emergency Procedures:	out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Vapour explosion hazard. Keep out of sewers. For large spills, warn public of downwind explosion hazard. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Use appropriate safety equipment. For personal protection, see Section 8 of the SDS.
	Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
	Methods and Materials for Containment and Cleaning Up:	Ground and bond all containers and handling equipment. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Contain spilled material if possible.
	Small Spills	Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers.
	Large Spills	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	After Spill Clean-up	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
<u>7.</u>	Handling and Storage	

Precautions for Safe Handling: Keep out of reach of children. Keep away from heat, sparks and flame. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Avoid contact with eyes, skin, and clothing. Avoid breathing vapour or mist. Do not swallow. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Never use air pressure for transferring product. No smoking, open flames or sources of ignition in handling and storage area. Containers, even those that have been emptied, can contain vapours. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. See Section 8, Exposure Controls/Personal Protection.

For additional information on equipment bonding and grounding, refer to the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or AS/NZS 1020 Control of Undesirable Static Electricity.

This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store locked up. Store in a dry place. Do not store near food, foodstuffs, drugs or potable water supplies. Store in original tightly closed container. Do not store in: Zinc. Aluminum. Aluminum alloys. Magnesium. Magnesium alloys. Eliminate sources of ignition, such as static build-up, heat, spark or flame. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. If you keep more than 500 kg or L of Category 1 Dangerous Goods, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label. Also, avoid contact or contamination of product with incompatible materials listed in Section 10. Store at temperatures not exceeding 55°C.

### 8. Exposure Controls and Personal Protection

Occupational Exposure Limits:

Conditions for Safe Storage.

Including Incompatibilities:

#### SWA Exposure Limits:

Component	CAS No.	TWA (mg/m³)	STEL (mg/m <sup>3</sup> )	Skin Notation
1,3-Dichloropropene	542-75-6	4.5	Not established	Can be absorbed via skin

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equaled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL.

Biological Monitoring:	No biological exposure limits noted for the ingredient(s).
Control Banding:	Not assigned.
Engineering Controls:	No special ventilation requirements are normally necessary for this product during its intended use outdoors as an agricultural soil fumigant. However, in the event the product is handled indoors, such as in a lab environment, make sure that the work environment remains clean and that vapours and mists are minimised. Good general ventilation (typically 10 air changes per hour) should be used. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
	Eyebaths or eyewash stations and safety deluge showers or water flushing facilities should, if practical, be provided near to where this product is being handled commercially.
Individual Protection Measures:	The instructions below are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.
Eye and Face Protection	Your eyes must be completely protected from this product by splash resistant goggles with face shield. All surrounding skin areas must be covered. Emergency eye wash facilities must also be available in an area close to where this product is being used.
Skin Protection	Avoid contact with the skin. Because of the hazardous nature of this product, make sure that all skin areas are completely covered by impermeable gloves, overalls, hair covering, apron and face shield. Suitable material types include Tyvek®, Saranex®, and/or Tychem®.
Hand Protection	Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Ethyl vinyl alcohol laminate ("EVAL"). Viton. Examples of acceptable glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also account for relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection),

	potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
Respiratory Protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level, an approved respirator must be worn. If sensory irritation is experienced or if there is a significant chance that vapours or mists are likely to build up in the area where this product is being used, use a full-facepiece air-purifying respirator. It should be fitted with a type A cartridge, suitable for organic vapours, with a particulate pre-filter.
	For emergency or planned entry into unknown concentrations: Any self-contained breathing apparatus that has a full- facepiece and is operated in a pressure-demand or other positive-pressure mode.
General Hygiene Considerations:	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Relevant Australian Standards:	The following Australian Standards will provide general advice regarding safety clothing and personal protective equipment (PPE):
	Respiratory equipment: AS/NZS 1715. Protective Gloves: AS 2161. Occupational Protective Clothing: AS/NZS 4501 set 2008. Industrial Eye Protection: AS1336 and AS/NZS 1337. Occupational Protective Footwear: AS/NZS2210.

## 9. Physical and Chemical Properties

Appearance:	
Physical State	Liquid
Colour	Colourless to yellow
Odour	Sharp, sweet, penetrating, chloroform-like odour
Odour Threshold	No test data available
рН	6.5 1% CIPAC MT 75 (1% aqueous suspension)
Melting Point/Range	Not applicable
Freezing Point	No test data available
Boiling Point (760 mmHg)	107°C (225°F)
Flash Point	27°C (81°F), closed cup EC Method A9 (equivalent to Pensky-Martens)
Auto-Ignition Temperature	92/69/EEC A15 none below 400°C
Evaporation Rate	No test data available
Flammability (solid, gas)	Not applicable to liquids
Lower Flammability Limit	No test data available
Upper Flammability Limit	No test data available
Vapour Pressure	23 mm Hg @ 20°C (68°F)
Vapour Density (air =1)	3.8
Relative Density (water -1)	1.21 at 20°C (68°F) / 4°C Pyknometer
Liquid Density	1.211 g/cm3 at 20°C (68°F) Digital density metre
Water Solubility	Insoluble, but miscible in most organic solvents
Partition Coefficient (n-octanol/water)	log Pow: 1.82 to 2.1 (measured)
Decomposition Temperature	Not available.
Dynamic Viscosity	0.66 mPa.s at 40°C (104°F)
Kinematic Viscosity	0.636 mm2/s at 20°C (68°F)
Particle Characteristics	Not relevant because the product is a liquid.
Other Information:	
Explosive Properties	No data available
Oxidizing Properties	No data available
Volatility	Easily evaporates
Molecular Weight	110.97 g/mol

## 10. Stability and Reactivity

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Unstable at elevated temperatures.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur.
Conditions to Avoid:	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid static discharge.
	Incompatible materials Avoid contact with: Acids. Bases. Oxidisers. Avoid contact with metals such as: Zinc. Cadmium. Magnesium. Aluminum. Aluminum alloys.
Hazardous Decomposition	Decomposition products depend upon temperature, air supply and the presence of other
Products:	materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Hydrogen chloride. Toxic gases are released during decomposition. Decomposition products can include trace amounts of: Phosgene.

## 11. Toxicological Information

Information on Toxicological Effects:

Moderate toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation.Acute Dermal ToxicityLD <sub>50</sub> : 333 mg/kg, Rabbit Prolonged or widespread skin contact may result in absorption of harmful amounts.Acute Inhalation ToxicityLC <sub>50</sub> : > 2.7 to < 3.07 mg/L (595 ppm), Rat, 4-hour, vapour Prolonged excessive exposure may cause serious adverse effects, even death. Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs. Observations in animals include: Lethargy and incoordination (ataxia).Skin Corrosion/IrritationBrief contact may cause moderate skin irritation with local redness. May cause drying and flaking of the skin. Direct effects on skin - slight to moderate erythema and edema when 0.5 milliliter of the undiluted substance was applied under occlusion to the skin of rabbits for 4 hours.Serious Eye Damage/Eye IrritationMay cause severe eye irritation. May cause slight corneal injury. Vapour may cause lacrimation (tears). Vapour may cause eye irritation experienced as mild discomfort and redness.Respiratory SensitizationNo data available.Skin SensitizationAnimal data indicate that 1,3-dichloropropene is a potential skin sensitiser (allergic contact dermatitis - itchy skin, edema, blisters, burning feeling). In vitro genetic toxicity studies were negative.	Acute Oral Toxicity	LD <sub>50</sub> : > 110 mg/kg, Rat
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	Skin Sensitization	
	Germ Cell Mutagenicity	

Carcinogenicity	Has been shown to cause cancer in laboratory animals by the oral route. Inhalation exposure resulted in an increase in normal occurrence of benign lung tumors in male mice.
	International Agency for Research on Cancer (IARC) Monographs. Overall Evaluation of Carcinogenicity - Group 2B Possibly carcinogenic to humans.
	There is sufficient evidence in experimental animals for the carcinogenicity of mixed isomers of technical grade
	National Toxicology Program (NTP) Report on Carcinogens (14th Report) Reasonably Anticipated to be a Human Carcinogen.
	Work Health and Safety Regulations (Schedule 10) - Australia No component in mixture is listed.
Reproductive Toxicity	In animal studies, did not interfere with reproduction.
Teratogenicity	Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.
Specific Target Organ Toxicity Single Exposure	<ul> <li>May cause respiratory irritation.</li> <li>Skin absorption - considered systemically available via liquid or vapour and can be neurotoxic following acute dermal exposure.</li> </ul>
Specific Target Organ Toxicity Repeated Exposure	<ul> <li>In animals, effects have been reported on the following organs: Bladder. Nasal tissue. Liver. Lung. Gastrointestinal tract. Respiratory tract. Blood-forming organs (Bone marrow &amp; Spleen).</li> </ul>
Aspiration Hazard	May be fatal if swallowed and enters airways.
Information on Possible Routes of Exposure:	Eyes(mainly due to vapours in air)Respiratory Tract(by inhalation of vapours)Skin(contact with liquid and vapours)Ingestion(with potential for aspiration)
Early Onset of Symptoms Related to Exposure:	Respiratory, skin, and eye irritation. Headache, dizziness, nausea, chest discomfort, coughing, breathing difficulty. Difficulty breathing if substance is aspirated.
Delayed Health Effects	Allergic contact dermatitis in humans and animals following repeated or prolonged skin
from Exposure:	exposure.
Exposure Levels/Health Effects:	No data available (see above information on Acute Toxicity for oral, dermal, and inhalation in animals.
Interactive Effects:	No data available.
Other Information:	None.

## 12. Ecological Information

Ecotoxicity:

Acute Toxicity to Fish	Material is highly toxic to aquatic organisms on an acute basis ( $LC_{50}/EC_{50}$ between 0.1 and 1 mg/L in the most sensitive species tested).
	LC <sub>50</sub> : 2.78 mg/L, 96-hour, <i>Oncorhynchus mykiss</i> (rainbow trout) LC <sub>50</sub> : 0.87 mg/L, 96-hour, <i>Cyprinodon variegatus</i> (sheepshead minnow) LC <sub>50:</sub> 3.7 mg/L, 96-hour, <i>Lepomis macrochirus</i> (bluegill sunfish)
Acute Toxicity to Aquatic Invertebrates	EC <sub>50</sub> : 3.58 mg/L, 48-hour, <i>Daphnia magna</i> (water flea) EC <sub>50</sub> : 0.64 mg/L, 48-hour, <i>Crassostrea virginica</i> (eastern oyster)

Acu	te Toxicity to Algae/	EbC <sub>50</sub> : 14.9 mg/L, 72-Hour, <i>Pseudokirchneriella subcapitata</i> (green algae), static test, Biomass
Aqu	atic Plants	EC <sub>50</sub> : 2.35 mg/L, 120-Hour, diatom <i>Navicula</i> sp., Biomass EC <sub>50</sub> : 14.56 mg/L, 14-d, <i>Lemna gibba</i>
Chro	onic Toxicity to Fish	NOEC: 0.0318 mg/L, 33-d, <i>Pimephales promelas</i> (fathead minnow), flow-through test, survival
	onic Toxicity to Aquatic ertebrates	NOEC: 0.0701 mg/L, 21-d, Daphnia magna (water flea), number of offspring
Toxi	icity to Aboveground	Material is moderately toxic to birds on an acute basis (LD $_{50}$ between 51 and 500 mg/kg).
Orga	anisms	Material is practically non-toxic to birds on a dietary basis ( $LC_{50}$ > 5000 ppm).
		Oral LD <sub>50</sub> : 139.8 mg/kg, <i>Colinus virginianus</i> (bobwhite quail), mortality, bodyweight. Dietary LC <sub>50</sub> : > 6243 mg/kg, <i>Anas platyrhynchos</i> (mallard duck), diet
	icity to Soil-Dwelling anisms	LC <sub>50</sub> : 55.6 mg/kg, 14-d, <i>Eisenia fetida</i> (earthworms)
Persisten	nce and Degradability:	
Bioc	degradability	Biodegradation may occur under aerobic conditions (in the presence of oxygen). 10-day Window: Fail
Bioc	degradation	4.9% Method: OECD Test Guideline 301D or Equivalent
The	oretical Oxygen Demand	1.281 mg/mg
Biol	ogical Oxygen Demand	0.148 mg/mg
Stat	oility in Water (1/2-life)	2.3 to 4.75 days
Pho	todegradation	7 to 12 hours (atmospheric 1/2-life)
Bioaccun	nulative Potential	No data available for this product. For similar material(s): Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
Partition Water (lo	Coefficient: n-octanol / g Kow)	1.82 to 2.1 (measured
Mobility i	n Soil	For similar material(s): Potential for mobility in soil is very high (Koc between 0 and 50). Partition coefficient (Koc): 44.7 Measured
Other Ad	verse Effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

## 13. Disposal Considerations

Disposal Methods	This material and its container must allow this material to drain into sever	aled containers at licensed waste disposal site. be disposed of as hazardous waste. Do not ers/water supplies. Do not contaminate ponds, or used container. Dispose of contents/container tional/international regulations.
Local Disposal Regulations		oosal of Agricultural Chemicals. The product label isposal of small quantities, and how to cleanse
	For help with the collection of unwar	nted rural chemicals, contact:
	ChemClear 1800 008 182	http://www.chemclear.com.au/
	For help with the disposal of empty	drums, contact:
	DrumMuster	http://www.drummuster.com.au/ for contact details for your area.
Waste from Residues / Unused Products	•	regulations. Empty containers or liners may material and its container must be disposed of in ods).
Contaminated Packaging		o an approved waste handling site for recycling or austic or lye. Since emptied containers may retain gs even after container is emptied.

## 14. Transport Information

Product is a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

UN Number	2903
Proper Shipping Name:	Pesticides, liquid, toxic, flammable, n.o.s.(1,3-Dichloropropene)
Transport Hazard Class:	6.1 (Toxic)
Subsidiary Risk:	3 (Flammable Liquid)
Packing Group Number:	II
Environmental Hazards for Transport Purposes:	1,3-Dichloropropene (acute and chronic aquatic toxicity) - Marine Pollutant
Special Precautions for Users:	Packages must be secured against all movement during transport. Keep markings, labels or placards on package until cleaned and purged of residue including bulk and non-bulk packages. For cylinders, ensure valve is closed and safety cap(s) and valve protection are in place prior to transport.
Additional Information:	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.
Hazchem Code:	3WE Hazard Identification Number (HIN) 663/63

### 15. Regulatory Information

### Australian Inventory of Chemical Substances (AICS):

1,3-Dichloropropene is regulated by SUSMP.

1,3-Dichloropropene, CAS 542-75-6 is listed as 1-Propene, 1,3-dichloro- when used as an industrial chemical.

### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):

1,3-Dichloropropene Schedule 7 (see Note:)

### Note: Appendix J, Part 2 - Schedule 7 Poisons Requiring Additional Controls on Availability and Use

1,3-Dichloropropene is listed in Appendix J, Part 2.

All poisons included in Appendix J, Part 2 are not to be available except to authorised or licensed persons.

### Montreal Protocol on Substances that Deplete the Ozone Layer:

Component not listed.

### Stockholm Convention on Persistent Organic Pollutants:

Component not listed.

# Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade:

Component not listed in Annex III.

#### New Zealand Inventory (NZIoC)

1,3-Dichloropropene, CAS 542-75-6 is listed.

### 16. Other information, including date of preparation or last revision

This SDS prepared in accordance with SWA Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, July 2020, amended to reflect GHS 7.

Version 3 Date:	May 24, 2024
Revision History:	Revision Date Format - dd:mm:yyyy
30/08/2021	Initial version
02/12/2022	Updated formatting to reflect the adoption of the 7th revised edition of the GHS
24/05/2024	Section 1 - Updated Manufacturer address

### ABBREVIATIONS:

CAS	Chemical Abstracts Service	
CHEMTREC	Chemical Transportation Emergency Center	
EbC <sub>50</sub>	The concentration of test substance which results in a 50 percent reduction in biomass growth relative to the control within 72 hrs exposure. Regarded as acute endpoint.	
	Half Maximal Effective Concentration - concentration of a material in water, a single dose which is	
EC <sub>50</sub>	expected to cause a biological effect on 50% of a group of test species.	
IMDG	International Maritime Dangerous Goods	
LC <sub>50</sub>	Lethal Concentration - median dose at which 50% of test animals die from inhalation	
LD <sub>50</sub>	Lethal Dose - median dose at which 50% test animals die from oral or dermal exposure	
NOEC	No Observed Effect Concentration	
NTP	National Toxicology Program	
ppm	part(s) per million	
STOT	Specific Target Organ Toxicity	
TWA	Time Weighted Average airborne concentration for a worker in an 8-hour day	

™ = Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

### WARRANTY

Notice: The information above is believed to be accurate and represents the best information currently available to us. Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.