

SAFETY DATA SHEET

1.	Identification		
	Product identifier	Strike 35 Soil Fumigant	
	Other means of identification	•	
	SDS number	135-AUS-TCA	
	Recommended use	Soil fumigant	
		NOTE TO PESTICIDE HANDLERS: If the contains hazard information, specific instruction with this Safety Data Sheet (SDS), follow or requirements on the labeling.	ructions, or requirements that conflict
	Restrictions on use	Use of this product requires supervision	by a qualified pesticide applicator.
	Details of manufacturer or importer Address Telephone	 TriCal Australia Pty Ltd 5 Chamberlain Street, Wingfield, SA 501: 08 8347 3838 	3, Australia
	E-mail	info@trical.com.au	
	Emergency phone number	CHEMTREC (Australia)	02 9037 2994 (24/7)
		POISONS INFORMATION CENTRE	13 11 26
2.	Hazard(s) identification		
	Physical hazards	Flammable liquids	Category 3
	Health hazards	Acute toxicity, oral Acute toxicity, dermal Acute toxicity, inhalation Skin corrosion/irritation Serious eye damage/eye irritation Sensitization, skin Carcinogenicity Specific target organ toxicity, single exposure Specific target organ toxicity, single exposure Specific target organ toxicity, repeated exposure Hazardous to the aquatic environment, acute hazard Hazardous to the aquatic environment, long-term hazard	Category 3 Category 2 Category 1 Category 1C Category 1 Category 1 Category 2 Category 2 Category 1 (respiratory system damage) Category 3 (respiratory tract irritation) Category 1 (respiratory tract/lungs) Category 1 Category 1
	Label elements	Flame Skull Corrosion	Health Exclamation Environment
	Signal word D	ANGER	
		lammable liquid and vapour. Toxic if swal haled. May cause an allergic skin reactio	

Precautionary Statement Prevention	severe skin burns and eye damage. May cause respiratory irritation. Suspected of causing cancer. Causes damage to organs (respiratory system). Causes damage to organs (lung, liver, kidney, respiratory system) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid release to the environment.
Response	Specific treatment is urgent. If swallowed: Rinse mouth. Do not induce vomiting. If swallowed: Immediately call a POISON CENTRE or doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE or doctor. If on skin: Wash with plenty of soap and water. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use appropriate media 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, and international regulations.
Hazard(s) not otherwise classified (HNOC)	Lachrymator - Vapour extremely irritating to the eyes and respiratory tract.

3. Composition and information on ingredients

Mixtures

Chemical name	CAS number	Concentration by weight %	
1,3-Dichloropropene (1,3-D)	542-75-6	65.0 *	
Chloropicrin (Trichloronitromethane)	76-06-2	35.0 *	

Composition comments

* Product label will reflect nominal active ingredient percentages.

4. First-aid measures

Description of necessary first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide oxygen, if available, or artificial respiration, if needed. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or POISON CENTRE for further treatment advice.
Skin contact	Remove contaminated clothing immediately and wash skin for 15-20 minutes with water, and if available, use soap. Call a physician or POISON CENTRE for treatment advice. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse. Refer to Section 4. General Information for more information on contaminated clothing.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or POISON CENTRE immediately.
Ingestion	Call a physician or POISON CENTRE immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with

		a one-way valve or other proper respiratory medical device.
	Symptoms caused by exposure	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes respiratory distress and irritation. Early symptoms may include throat and nose irritation, nausea or vomiting. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
	Medical attention and Special treatment	Material if aspirated into the lungs may cause rapid absorption through the lungs which may result in systemic effects. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately. In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician. Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
		Note to Physician: If lavage is performed, endotracheal and/or esophageal control is suggested. Danger from lung toxicity must be weighed against toxicity when considering emptying the stomach.
	General information	Take off immediately all contaminated clothing. Aerate contaminated clothing in a secure area downwind and away from people. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. Discard any shoes or clothing items that cannot be decontaminated, after aerating.
5.	Fire-fighting measures	
	Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
	Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
	Specific hazards arising from the chemical	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products include: Carbon monoxide. Carbon dioxide. Chlorine. Hydrogen chloride. Phosgene. Nitrosyl chloride. Nitrogen oxides.
	Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
	Hazchem Code	2WE
	Firefighting equipment and instructions	In case of fire and/or explosion do not breathe smoke, gas or vapours. Move containers from fire area if you can do so without risk.
	Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
	General fire hazards	Flammable liquid and vapour.
6.	Accidental release meas	sures
	Personal precautions, protective equipment and emergency procedures	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Move leaking or damaged containers outdoors or to an isolated location, observing strict safety precautions. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
		Small spills: Consider initial isolation for at least 60 metres (200 feet).
		Large spills: Consider initial isolation for at least 200 metres (600 ft.).
	Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Work upwind, if possible.
		Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
		Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

	Use water spray to reduce vapours or divert vapour cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not subject containers to rough handling or to abnormal mechanical shock. Use a suitable hand truck or forklift to move heavier cylinders. Do not heat container by any means to increase the discharge rate of product from the container.
	Do not handle until all safety precautions have been read and understood. Vapours may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Do not breathe vapour. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Store at temperatures not exceeding 55 °C (131 °F).

8. Exposure controls/personal protection

Occupational exposure limits

Туре	Value
orne Contaminants (Austra	alia Work Health and Safety Act)
TWA	0.1 ppm (0.67 mg/m3)
TLV-TWA	
TLV-TWA	0.1 ppm (0.7 mg/m3)
azards	
REL-TWA	1.0 ppm (5.0 mg/m3)
REL-TWA	0.1 ppm (0.7 mg/m3)
	orne Contaminants (Austra TWA TLV-TWA TLV-TWA azards REL-TWA

Biological limit values No biological exposure limits noted for the ingredient(s).

Control Banding	Not assigned.	
Exposure guidelines		
US. ACGIH Threshold Limit	Values: Skin designation*	
1,3-Dichloropropene	e (CAS 542-75-6)	Can be absorbed through the skin.
US. NIOSH: Pocket Guide t	o Chemical Hazards	
1,3-Dichloropropene	e (CAS 542-75-6)	Can be absorbed through the skin.
eyes either by contact with v	apours or by direct skin contact. I	of the material including mucous membranes and the t is intended to alert the reader that inhalation may not ermal exposures should be considered.
Engineering controls	(typically 10 air changes per h matched to conditions. If app	ocal exhaust ventilation. Good general ventilation our) should be used. Ventilation rates should be licable, use process enclosures, local exhaust ng controls to maintain airborne levels below

	recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Water flushing facilities must be available when handling this product.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields and a face shield. Wear goggles when using a half-mask respirator. Wear a full-face respirator, if needed.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. For help in selecting suitable equipment, consult AS 2161: Occupational protective gloves, Protection against thermal risks (heat and fire).
	Incidental contact (< 10 minutes): Nitrile, butyl rubber or neoprene gloves are recommended.
	More than incidental contact: Viton or Silver Shield ® gloves are recommended.
Other	Avoid contact with the skin. When performing tasks with potential for contact with liquid, wear appropriate chemical resistant clothing to prevent skin contact. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, whole body suits or other protective clothing. The protection suit must be able to provide reliable protection against a broad range of industrial chemicals. Examples include: Tychem and Saranex.
Respiratory protection	For non-handlers and non-applicators:
	 If working in an environment where the eyes are stinging and watery due to exposure to this product, wear an approved full-face-respirator with an organic vapour cartridge.
	For all pesticide handlers (including applicators):
	 Must wear a half-face air-purifying respirator (in conjunction with goggles) equipped with an organic-vapour cartridge and a particulate pre-filter.
	 If sensory irritation (tearing, burning of the eyes or nose) is experienced and handlers remain in the application block or buffer zone, handlers must wear at a minimum either: an approved full-face air-purifying respirator equipped with an organic vapour cartridge and a particulate pre-filter, or a gas mask with a Type A or AX canister approved for organic vapour.
	Emergency or planned entry into unknown concentrations or IDLH conditions:
	 Any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode.
	Escape:
	 Full-face air-purifying respirator equipped with Type A or AX organic vapour cartridge.
	 Air-purifying respirator with canisters that include the escape gas mask (canister) respirator, the gas mask (canister) respirator, and the filter self-rescuer.
	- Any self-contained breathing apparatus with hood or full-face mask.
	Respirators certified "escape only" can only be used for escape purposes and CANNOT be used for responding to emergencies.
	Select approved respirators in accordance with AS/NZS 1715 Standard - Selection, use and maintenance of respiratory protective equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	NOTE: Handlers and applicators must follow the end-use pesticide label instructions for each of the task situations that require personal protective equipment.
	When using, do not eat, drink or smoke. Do not get this material on clothing. 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.

9. Physical and chemical properties

Appearance	Transparent liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Colourless to pale yellow. Brown if in prolonged contact with metal packaging.
Odour	Chloropicrin has a strong, sharp, intensely irritating odour. 1,3-Dichloropropene has a pungent, sweet, penetrating odour.
Odour threshold	700 ppb in 2-5 seconds (Chloropicrin)
рН	2.4 in 1% v/v aqueous
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	99.5 °F (37.5 °C) Tag Closed Cup
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit – lower %	> 5.5 % @ 186 °F (85.5 °C)
Flammability limit – upper %	< 14.5 % @ 186 °F (85.5 °C)
Explosive limit – lower %	Not available.
Explosive limit – upper %	Not available.
Vapour pressure	Approximately 33 mmHg @ 20 °C (moderately volatile).
Vapour density	Not available.
Relative density	1.348 @ 20 °C (68 °F) (H ₂ O = 1)
Density	1.346 kg/L or 1345.7 g/L @ 20 °C (68 °F)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	0.61 cSt @ 40 °C
	0.71 cSt @ 20 °C

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, sto transport.	
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Chemical reaction may occur if mixed with or allowed to contact oxidizing agent.
Conditions to avoid	Heat may cause the containers to rupture or burst. Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Copper. Aluminum. Zinc. Cadmium. Magnesium. Acids. Bases. Amines.
Hazardous decomposition products	During combustion: Carbon monoxide. Carbon dioxide. Chlorine. Hydrogen chloride. Phosgene. Nitrosyl chloride. Nitrogen oxides.

11. Toxicological information

Acute toxicity

Fatal if inhaled. Fatal in contact with skin. Toxic if swallowed.

<u>Components</u>	Route of Entr	y <u>Animal</u>	<u>Test Results</u>		
Acute	Dermal, LD50	Rabbit	> 333 mg/kg		
	Inhalation, LC	50 Rat	> 855 ppm, 4 hours		
	Oral, LD50	Rat	> 110 mg/kg		
Chloropicrin (CAS 7	6-06-2)				
Acute	Dermal, LD50	Rabbit	50 mg/kg, (converted acute toxicity point estimate)		
	Inhalation, LC	50 Rat	18.9 ppm, 4 hours, (126.6 mg/m3)		
	Oral, LD50	Rat	37.5 mg/kg		
Skin corrosion/irritation		Causes severe skin burns.			
Serious eye damage/eye irritation Respiratory or skin sensitization		Causes serious eye damage.			
Respiratory ser	sitization	Not classified.			
Skin sensitizati		May cause an allergic	skin reaction.		
Germ cell mutager	neity	0.1% are mutagenic o	dicate product or any components present at greater than r genotoxic.		
Carcinogenicity		Suspected of causing	cancer (1,3-Dichloropropene).		
IARC Monograp	ohs. Overall Eval	uation of Carcinogenie	city		
1,3-Dichlord	propene (CAS 54	2-75-6)	2B Possibly carcinogenic to humans.		
NTP Report on	Carcinogens				
1,3-Dichlord	propene (CAS 54	2-75-6)	Reasonably Anticipated to be a Human Carcinogen.		
Work Health an Not listed.	d Safety Regulat	ions (Schedule 10) - A	ustralia		
Reproductive toxicity		Not classified.			
Specific target organ toxicity – single exposure		Causes damage to organs (Respiratory tract irritation).			
Specific target organ toxicity – repeated exposure		Causes damage to organs (lung, liver, kidney, respiratory system) through prolonged or repeated exposure.			
Aspiration haza	rd	Not classified.			
Chronic effects		Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes damage to organs through prolonged or repeated exposure.			
Information on like	ly routes of expo	osure			
Inhalation		Fatal if inhaled. May cause damage to organs by inhalation.			
Skin contact		Fatal in contact with skin. Causes severe skin burns. May cause an allergic skir reaction.			
Eye contact		Causes serious eye damage. Lachrymation (discharge of tears).			
Ingestion		Toxic if swallowed. Causes digestive tract burns.			
Early onset symptoto exposure	oms related		v exposure are stinging/tearing of the eyes and irritation or vomiting may occur.		
physical, chemical andSytoxicological characteristicsvis		Symptoms may includ vision. Permanent ey	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash.		
Delayed health effects from exposure		Persons exposed to very high levels of chloropicrin have reported to have experienced nausea, vomiting, and diarrhea lasting for weeks.			

Exposure levels and health effects (for Chloropicrin)

> 2000 ppb (10 minutes)	Human response - life-threatening effects including pulmonary edema can occur.
> 580 ppb (8 hours)	Human response - life-threatening effects including pulmonary edema can occur.
> 300 ppb	Human response - respiratory symptoms may increase in severity and include difficulty in breathing.
> 150 ppb	Human response - headache, nausea, and vomiting may occur. These symptoms are temporary and reversible following termination of exposure.
73 - 150 ppb	Human response - mild irritant to eyes and throat.
73 ppb	Human sensory irritation threshold (eye irritation).
Interactive effects	No data available.

12. Ecological information

Eco	oto	ric	itv	
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Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

		CAS 542-75-6)	
<u>Components</u>		<u>Species</u>	<u>Test Results</u>
Aquatic, acute			
Crustacea	EC50	Oyster (Crassostrea cucullata)	0.67 mg/l, 96 hours Shell (growth inhibition)
Fish	LC50	Rainbow trout (Oncorhynchus mykiss)	2.78 - 4.63 mg/l, 96 hours
	LC50	Sheepshead minnow (Cyprinodon variegatus)	0.91 mg/l, 96 hours
Aquatic, chronic	;		
Crustacea	LOEC	Daphnia	0.109 mg/l, 21 days
	NOEC	Daphnia	0.073 mg/l, 21 days
Fish	LOEC	Fish	0.204 mg/l, 33 days
	NOEC	Fish	0.117 mg/l, 33 days

Aquatic, acute			
Crustacea	EC50	Oyster (Crassostrea cucullata)	6.4 µg/l, 96 hours
Fish	EC50	Bluegill (Lepomis macrochirus)	50 μg/l, 96 hours
	EC50	Fish	11 μg/l, 96 hours
	EC50	Sheepshead minnow (Cyprinodon variegatus)	100 μg/l, 96 hours
Aquatic, chronic			
Other	NOEC	Lemna minor	11 μg/l, 7 days

Persistence and degradability	Based on information for a similar material:
	 Degradation is expected in the atmospheric environment within minutes to weeks.
	Degradation is expected in the soil environment within days to weeks
	Based on information for chloropicrin:
	 Chloropicrin degrades to carbon dioxide in soil with a half-life between 8 hours and 4.5 days.
	 In water, Chloropicrin degrades to carbon dioxide, bicarbonate, chloride, nitrate and nitrite within 32 hours when exposed to light.
	 Half-life in air when exposed to simulated sunlight was 20 days with the end products being phosgene, nitric oxide, chlorine, nitrogen dioxide and dinitrogen tetroxide.
Bioaccumulative potential	No data available.
Partition coefficient n-octanol /	water (log Kow)
1,3-Dichloropropene (CAS 54	42-75-6) 1.82
Chloropicrin (CAS 76-06-2)	2.38

Partition coefficient soil organic carbon/water

1,3-Dichloropropene (CAS 54	2-75-6)	23 – 80	measured		
Chloropicrin (CAS 76-06-2)		36 – 62	estimated		
Bioaccumulation Potential (BCF)		Low for	1,3-Dichloropr	opene (BCF	<100 or Log Pow <3)
Mobility in soil	Potential for	mobility in sc	oil is very high	(Koc between	0 and 50) for product.
Other adverse effects	This product	is toxic to ma	ammals, birds,	fish, and aqu	atic invertebrates.
Distribution in environment:	Mackay Lev	el 1 Fugacit	y Model:		
	Air	Water	Biota	Soil	Sediment
	96.94%	2.76%	<0.01%	0.28%	<0.01%
13. Disposal considerations					
Disposal methods	material to c waterways c accordance this product	frain into sew or ditches with with local/reg or its effluent	ers/water supp n chemical or u gional/national/ t into lakes, rive	blies. Do not used containe (international u ers, streams,	directions. Do not allow this contaminate ponds, r. Dispose of contents in regulations. Do not discharge ponds, estuaries, oceans or d Personal Protection for

Local disposal regulations	Dispose in accordance with all applicable regulations.
Waste from residues / unused Products	If wastes cannot be disposed of according to the product label directions, disposal of this material must be in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal methods). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should have the micromatic fitting removed and be triple rinsed and then taken to your nearest drumMUSTER collection point. Do not use

containers to store any other material.

additional information.

14. Transport information

Road and Rail Transport	
UN number	UN3489
Proper shipping name	Toxic by inhalation liquid, flammable, corrosive, n.o.s. (Chloropicrin, 1,3- Dichloropropene)
Transport hazard class	6.1 (3) (8)
Packing group	Ι
Environmental hazards for trar	nsport purposes
Marine pollutant	Yes (Chloropicrin; 1,3-Dichloropropene)
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Hazchem Code	2WE
IATA (Air Transport)	UN3489 is FORBIDDEN to transport by air
IMDG (Sea Transport)	
UN number	UN3489
Proper shipping name	TOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE, N.O.S. (Chloropicrin, 1,3-Dichloropropene)
Transport hazard class	6.1 (3) (8)
Packing group	Ι
Environmental hazards for trar	nsport purposes
Marine pollutant	Yes (Chloropicrin; 1,3-Dichloropropene)
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
EmS	F-E, S-D
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This product is not transported by this method.

15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (as amended). Poisons Schedule – 7 and Appendix J, Part 2

NICNAS assessment		Not required for agricultural-only material.
Montreal Protocol (Ozone d	epleting substances)	No component is listed.
The Stockholm Convention	(Persistent Organic Pollutants)	No component is listed.
The Rotterdam Convention	(Prior Informed Consent)	No component is listed.
International inventories	Chloropicrin (CAS 76-06-2)	

1,3-Dichloropropene (CAS 542-75-6)

Inventory name

On inventory (yes/no)*

<u> </u>		······
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
	Domestic Substances List (DSL)	
Canada	Non-Domestic Substances List (NDSL)	[CAS 542-75-6 only] Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EIN	ECS)Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
	Existing Chemicals List (ECL)	
	National Inventory of Chemical Substances (INSQ)	
	New Zealand Inventory (NZIoC)	
	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	
	Chemical Substance Inventory (TCSI)	
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all of this product's components, unless specific ones only are indicated, comply with inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Version 1 date

Country(s)

November 25, 2019

Revision history

11-25-19

Initial version

Abbreviations and Acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADG Code	Australian Dangerous Goods Code (requirements for land transport of dangerous goods)
APVMA	Australian Pesticides and Veterinary Medicines Authority
BEL	Biological Exposure Limit
CAS	Chemical Abstracts Service
CHEMTREC	Chemical Transportation Emergency Center
EC50 (EC ₅₀)	Half Maximal Effective Concentration - concentration of a material in water, a single dose which is expected to cause a biological effect on 50% of a group of test species.
IMDG	International Maritime Dangerous Goods
LC50 (LC ₅₀)	Lethal Concentration - median dose at which 50% of test animals die from inhalation
LD50 (LD ₅₀)	Lethal Dose - median dose at which 50% test animals die from oral or dermal exposure
LOEC	Lowest Observed Effect Concentration
NIOSH	National Institute of Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
NTP	National Toxicology Program (USA)
OSHA	Occupational Health and Safety Administration (USA)
ppb	parts per billion
ppm	parts per million
REL	Recommended Exposure Limit (NIOSH)
TLV	Threshold Limit Value (ACGIH)
TWA	Time Weighted Average airborne concentration for a worker in an 8-hour day
USA	United States of America

Key literature references and sources of data:

- Hazardous Chemical Information System (HCIS) Australia
- Australian Dangerous Goods Code International Maritime Dangerous Goods Code
- AS/NZS 1715-2009 Selection, Use, and Maintenance of Respiratory Protective Devices
- AS/NZS 1716-2012 Respiratory Protective Devices
- WorkSafe Australia Hazardous Substance Information System
- Toxnet Hazardous Substance Data Base (United States Center for Disease Control)
- The International Uniform Chemical Information Database (IUCLID) Organization for Economic Cooperation and Development (OECD)
- European Chemicals Agency website (ECHA)
- Manufacturer pesticide registration data for US EPA and for State of California
- Manufacturer studies on human response

Disclaimer

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