

Section 1 - Identification of the Material and Supplier

Conquest Crop Protection Pty Ltd
Level 1/4 Collingwood Street
Osborne Park, WA 6017

Phone: (08) 9347 0500 (Business hours)
Fax (08) 9347 0551
Emergency (24 Hours): 1800 033 111 (Australia wide)

Chemical nature: Aqueous concentrate containing thiram and thiabendazole.
Trade Name: **Conquest Thoram T Seed Dressing**
APVMA Code: 86529
Product Use: Controls seed-borne & seedling root pathogens of peas, chickpeas, lentils, faba beans and vetch as specified in the Directions for Use table.
Creation Date: **July, 2018**
This version issued: **April, 2022** and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 11 26 from anywhere in Australia

Section 2 - Hazards Identification

GHS classification of the substance/mixture OT4 Acute Toxicity - Oral: Category 4
RE2 STOT Repeated Exposure Category 2 ED2A Eye Damage/Irritation: Category 2A SC-2 Skin Corrosion/Irritation: Category 2 SS-1 Sensitization - Skin: Category 1
SE-3RES STOT Single Exposure Category 3 (respiratory tract irritation) AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

Signal Word (s) **WARNING**
Hazard Statement (s) H332 Harmful if inhaled.
H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
General Precautionary Statement (s) P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
Pictogram (s) Exclamation mark, Health hazard, Environment,



The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.

Precautionary statement – Prevention P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands and exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P260 Do not breathe spray.
P280 Wear protective gloves, clothing, eye and face protection.
P272 Contaminated work clothing should not be allowed out of the workplace.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Precautionary statement – Response P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330 Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
IT4 Acute Toxicity - Inhalation: Category 4

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Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, g/L	TWA (mg/m ³)	STEL (mg/m ³)
Thiram	137-26-8	360	not set	not set
Thiabendazole	148-79-8	200	not set	not set
Other non hazardous ingredients	secret	to 1 L	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

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 equalled (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. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

Inhalation	Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.
Ingestion	Rinse mouth thoroughly with water. Do not give anything by mouth to a semi-conscious or unconscious person. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically. Avoid giving alcohol - may cause vomiting and shock.

Section 5 - Fire Fighting Measures**Suitable extinguishing media**

If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

Hazards from Combustion Products

Non-combustible.

If involved in a fire, the dehydrated components may emit hazardous smoke and fumes.

Special Protective Equipment for fire fighters

Breathable air apparatus must be worn if material is involved in fires especially in confined spaces.

Specific hazards arising from the chemical

Considered low risk due to water content, however upon evaporation of water the product is combustible.

Other Information

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

Section 6 - Accidental Release Measures**Spills & Disposal**

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).

Collect spilled material and waste in sealable open-top type containers for disposal.

On-site disposal of concentrate is not acceptable.

Dispose of at a landfill in accordance with local regulations.

Personal Protection

For appropriate personal protective equipment (PPE), refer Section 8.

If product has dried out and the possibility of dust generation exists, wear a suitable respirator.

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Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

Clean-up Methods - Large Spillages

Place damaged containers in recovery bins (if available) and return to manufacturer.
If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas, as possible, before absorbing remaining material into vermiculite or other absorbent.

Environmental Precautions

Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling

Seed treated with this product must not be used for animal or human consumption or be allowed to contaminate seed intended for animal or human consumption.

Conditions for safe storage, including any incompatibilities

Store in the closed, original container in a cool, well ventilated area.
Do not store for prolonged periods in direct sunlight. Store in a locked enclosure.
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

Other Information

Always read the label and any attached leaflet before use.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limit values	Name	STEL mg/m3 ppm	TWA mg/m3 ppm
	Thiram		1
Other Exposure Information	DFG (Germany) has set the following exposure standards for thiabendazole (inhalable aerosol) MAK TWA 20 mg/m3; PEAK 40. NOHSC has set the following exposure standard for propylene glycol : TLV (TWA) 10 mg/m3, STEL -.		
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.		
Respiratory Protection	If dusts are present, wear a class P2 dust mask.		
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container and preparing the product for use, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC or nitrile gloves and goggles.		
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.		
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.		

Section 9 - Physical and Chemical Properties:

Form	Liquid
Appearance	Opaque green liquid
Solubility in Water	Disperses in water
Specific Gravity	1.13
pH	8 – 8.5
Vapour Pressure	2.3 mPa @ 25°C for thiram; 0.00046 mPa @ 25°C for thiabendazole

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Volatile Component	~40%
Partition Coefficient: n-octanol/water	Kow Log P is 1.73 for thiram; 2.39 for thiabendazole
Flammability	Non combustible material.

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Incompatible Materials	The addition of a strong acid will cause release of carbon disulfide vapour. Carbon disulphide is a volatile toxic liquid.
Possibility of hazardous reactions	TLC/TWA 31 mg/m ³ , autoignition temperature ~100°C. Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 2600 mg/kg for thiram LD50 (rat) 3100 mg/kg for thiabendazole
Acute Toxicity - Dermal	LD50 (rabbit) >2000 mg/kg for thiram and thiabendazole
Acute Toxicity - Inhalation	LC50 (rat) (4hr) 4.42 mg/l for thiram LC50 (rat) (4hr) >0.5 mg/l for thiabendazole
Ingestion	Possible symptoms of exposure of the concentrate include: headache, arrhythmia, shortness of breath, nausea and vomiting. Consumption of alcohol increases the toxic effects.
Inhalation	Not a likely route of exposure when handling the concentrate. May cause irritation to the respiratory tract.
Skin	Prolonged contact with the concentrate may cause irritation. Prolonged or repeated exposure may cause skin sensitisation.
Eye	The concentrate will cause irritation of the eyes.
Skin Sensitisation	Prolonged and repeated skin contact may result in skin sensitisation.
Serious eye damage/irritation	The product is an eye irritant.
Respiratory Irritation	The product is a respiratory irritant.
Skin corrosion/irritation	Mild to moderate skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for thiram for a human is 0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.4 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2016). ADI for thiabendazole is 0.3 mg/kg/day, NOEL 3 mg/kg/day.

Section 12 - Ecological Information

Known Harmful Effects on the Environment	The product is a marine pollutant for sea transport.
Other Precautions	Do not feed treated seed, or otherwise expose, to wildlife and domestic animals, particularly birds. Do not contaminate streams, rivers or waterways with the chemical or used containers.
Acute Toxicity – Fish	The following is data for the active ingredient, thiram. LC50 (96hr) for rainbow trout is 0.128 mg/l.

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Acute Toxicity – Daphnia

LC50 (96hr) for bluegill sunfish is 0.0445 mg/l.
The following is data for the ingredient, thiabendazole.

Acute Toxicity - Other Organisms

LC50 (96hr) for rainbow trout is 0.55 mg/l.
LC50 (96hr) for bluegill sunfish is 19 mg/l
LC50 (48hr) for daphnia magna is 0.21 mg/l for thiram.
LC50 (48hr) for daphnia magna is 0.81 mg/l for thiabendazole.
No threat to bees as product is used as a seed dressing.
Birds: Not toxic to birds. LD50 for bobwhite quail (thiram) is >3950 mg/kg
LD50 for bobwhite quail (thiabendazole) is >2250 mg/kg

Section 13 - Disposal Considerations

Disposal: Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

Section 14 - Transport Information

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Thiram, is mentioned in the SUSMP.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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www.conquestag.com.au Phone (08) 9347 0500

End of SDS

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