

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name:	TIMOREX GOLD®
Design Code:	A20309A
Recommended Use:	Fungicide
Company Details:	Syngenta Crop Protection Limited
Address:	Tower II, Level 7, 110 Symonds Street Private Bag 92618, Symonds Street AUCKLAND NEW ZEALAND
Telephone number:	(weekdays) 09 306 1500
Emergency Telephone number:	(24 Hours) 0800 CHEMCALL (0800 243 622)
National Poisons & Hazchem Information Centre :	0800 POISON (0800 764 766)

Section 2: HAZARDS IDENTIFICATION

Hazard classification:	3.1C, 6.1D, 6.3A, 6.4A, 6.5B, 6.9B, 9.1B
Priority Identifier:	WARNING KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers:	3.1C = Flammable liquid 6.1D = Harmful if inhaled. 6.3A = Causes skin irritation 6.4A = Causes serious eye irritation 6.5B = Sensitiser. May cause allergic skin reaction. 6.9B = May cause damage to organs from repeated exposure. 9.1B = Toxic to aquatic life with long lasting effects.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:		
Chemical Identity of ingredients:		
Ingredient	CAS no.	Content (g/L)
Tea tree oil	68647-73-4	222.5
Mineral paraffin	8042-47-5	195
Ethanol	64-17-5	37
other ingredients determined not to be hazardous	-	to 100%

Section 4: FIRST AID MEASURES

Description of First Aid measures:	
General Advice:	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
If inhaled:	Move the victim to fresh air and keep at rest in a position comfortable for breathing. Call a Doctor or the National Poisons Centre if you feel unwell.
In case of skin contact:	Take off all contaminated clothing immediately. Wash off immediately with plenty of soap and water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.

In case of eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses (if present) and easy to do. Continue rinsing. If eye irritation persists, get medical advice.
If swallowed:	If swallowed seek medical advice immediately and show the container or label. DO NOT induce vomiting.
Important symptoms and effects, both acute and delayed:	
Symptoms:	No symptoms known or expected.
Indication of any immediate medical attention and special treatment needed:	
Treatment:	There is no specific antidote available. Treat symptomatically and supportively.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media:	
Suitable extinguishing media:	Foam, Carbon dioxide, dry chemical
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from the substance or mixture:	
Specific hazards during fire-fighting:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10) Exposure to decomposition products may be a hazard to health.
Advice for firefighters:	
Special protective equipment for firefighters:	Wear full protective clothing and self-contained breathing apparatus.
Further information:	Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
Refer to protective measures listed in Sections 7 and 8.	
Environmental Precautions:	
Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.	
Methods and material for containment and cleaning up:	
Contain spillage, and then collect with non-combustible absorbent material, (eg, sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations (see section 13). If the product contaminates rivers and lakes or drains inform respective authorities.	
Reference to other sections:	Refer to disposal considerations listed in Section 13. Refer to protective measures listed in sections 7 and 8.

Section 7: HANDLING AND STORAGE

Precautions for Safe handling:	
Advice on safe handling:	No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
Conditions for safe storage, including any incompatibilities:	
Requirements for storage areas and containers:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Stores containing quantities of 1000 litres or more require signage and secondary containment. Stores with quantities of 500 litres or more require fire extinguishers.
Further information on storage stability:	Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.
Specific end use(s) Specific use(s)	For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Control Parameters				
Occupational Exposure Limits:				
Components	CAS No	Exposure limit	Type of exposure limit	Source
Ethanol (ethyl alcohol)	64-17-5	1000 ppm 1880 mg/m ³	TWA	NZ WES
Exposure controls				
Engineering measures:		Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Maintain air concentrations below occupational exposure standards. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.		
Personal Protective Protection:				
Eye protection:		Tightly fitting safety goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower.		
Hand protection:		Chemical resistant gloves such as nitrile or butyl rubber		
Remarks:		The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time. The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.		

Skin and body protection:	<p>Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material.</p> <p>Wash with soap and water after removing protective clothing.</p> <p>Decontaminate clothing before re-use or use disposable equipment (suits, aprons, sleeves, boots, etc).</p> <p>Wear as appropriate: Impervious protective suit.</p>
Respiratory protection:	<p>When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.</p> <p>Suitable respiratory equipment: Respirator with combination filter for vapour / particulate. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas, vapour, aerosol, particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.</p>
Protective measures:	<p>The use technical measures should always have priority over the use of personal protective equipment.</p> <p>When selecting personal protective equipment, seek appropriate professional advice.</p> <p>Personal protective equipment should be certified to appropriate standards.</p>

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Yellow / brown coloured
Odour:	Characteristic, aromatic
Odour threshold:	No data
pH value	9.0 (1% emulsion in water)
Melting point / freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	39°C
Flammability:	Flammable
Upper / lower flammability / explosive limits:	No data
Vapour pressure:	No data
Vapour Density:	No data
Density:	0.92 g/cm ³
Solubility:	Readily emulsifiable in water
Partition co-efficient: n-octanol / water:	No data
Autoignition temperature	No data
Decomposition temperature:	No data
Dynamic viscosity:	No data
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising

Section 10: STABILITY AND REACTIVITY

Reactivity:

See Section: "Possibility of Hazardous Reactions".

Chemical Stability:

The product is stable when used in normal conditions.

Possibility of Hazardous Reactions:

No dangerous reaction known under conditions of normal use.

Conditions to Avoid

No decomposition if used as directed.

Incompatible Materials:

Oxidising materials, strong acids, alkalis

Hazardous Decomposition Products:

May be formed at high temperatures.

Section 11: TOXICOLOGICAL INFORMATION

HSNO Classifications:

- 6.1D = Harmful if inhaled.
- 6.3A = Causes skin irritation
- 6.4A = Causes serious eye irritation
- 6.5B = Sensitiser. May cause allergic skin reaction.
- 6.9B = May cause damage to organs from repeated exposure.

Acute toxicity (similar composition)

Swallowed:	LD ₅₀ 2000 mg/kg
Dermal absorption:	LD ₅₀ >2000 mg/kg
Inhaled:	LC ₅₀ (4 h) 5.4 mg/L
Aspiration hazard:	Not classified
Respiratory irritation:	Not classified
Skin corrosion / irritation:	IRRITANT (rabbit)
Eye damage / irritation:	IRRITANT (rabbit)
Respiratory or Skin Sensitisation:	SENSITISER

Chronic / Long Term Effects (active ingredient)

Germ cell mutagenicity:	Not expected
Carcinogenicity:	Not expected
Reproductive toxicity:	Not expected
Specific Organ toxicity:	<i>Repeated exposure:</i> The substance or mixture is classified as specific target organ toxicant, repeated exposure, Class 6.9B (GHS: Category 1).
Narcotic Effects:	Not classified

Section 12: ECOLOGICAL INFORMATION

HSNO Classifications:

- 9.1B = Toxic to aquatic life with long lasting effects.

Ecotoxicity Effects - product

Acute toxicity to fish:	LC ₅₀ (96 h) = 5.67 mg/L (<i>Onchorhynchus mykiss</i> [rainbow trout])
Toxicity to daphnia and other aquatic invertebrates:	EC ₅₀ (48h) = 1.45 mg/L (<i>Daphnia magna</i> (water flea))
Toxicity to algae:	EC ₅₀ (96 h) = 7.21 mg/L (<i>Desmodesmus subspicatus</i> [green algae])
Toxicity to Birds:	LD ₅₀ = >2000 mg/kg bw (Japanese quail)
Toxicity to soil dwelling organisms:	NOEC (14 days) = 1000 mg/kg (earthworms)
Toxicity to Bees:	Oral: LD ₅₀ = >95.8 µg/bee Contact: LD ₅₀ = 331 µg/bee
Persistence and degradability:	
Biodegradability:	Readily biodegradable
Stability in water:	Not persistent in water.
Bioaccumulative potential:	
Bioaccumulation:	Does not bioaccumulate.

Mobility in soil:	
Distribution among environmental compartments:	Not mobile in soil due to high volatility of tea tree oil
Stability in soil:	Not persistent in soil.
Other adverse effects:	
Results of PBT and vPvB assessment (product):	This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 13: DISPOSAL CONSIDERATIONS

Product Disposal:	DO NOT contaminate ponds, waterways or ditches with chemical or used containers. DO NOT dispose of waste into sewer. Dispose of this product only by using according to the label. Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the substance so that it is rendered no longer hazardous.
Container Disposal:	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise bury in a suitable landfill. DO NOT reuse for any purpose.

Section 14: TRANSPORT INFORMATION

Rail / Road (NZS 5433)	UN-No:	1993
	Class:	3
	Packing Group:	III
	Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (tea tree oil, ethanol)
Sea (IMDG-Code)	UN-No:	1993
	Class:	3
	Packing Group:	III
	Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (tea tree oil, ethanol)
	EmS Code:	F-E, S-E
	MARINE POLLUTANT:	No
Air (IATA)	UN-No:	1993
	Class:	3
	Packing Group:	III
	Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (tea tree oil, ethanol)
	Packing instruction:	355 (passenger aircraft) 366 (cargo aircraft)
	Packing instruction (LQ):	Y344 (cargo and passenger aircraft)

Section 15: REGULATORY INFORMATION

HSNO Approval Number:	HSR101142
Tolerable Exposure Limit or Environmental Exposure Limit:	None set at this time
Required Regulatory Controls:	
Certified handler:	No
Tracking:	No
Record Keeping:	No
ACVM Registration:	P 9392
ACVM Controls:	See www.foodsafety.govt.nz for registration conditions.
International Agreements related to the substance (eg, Montreal Protocol, Stockholm Convention or Rotterdam Convention):	

Section 16: OTHER INFORMATION

Date of SDS Preparation / Review:	11 September 2018
Version number of SDS:	1
Key / Legend to abbreviations and acronyms used:	
EmS - Emergency Schedule;	NO(A)EL - No Observed (Adverse) Effect Level;
ErCx - Concentration associated with x% growth rate response;	NOELR - No Observable Effect Loading Rate;
ERG - Emergency Response Guide;	NZIoC - New Zealand Inventory of Chemicals;
GHS - Globally Harmonized System;	OECD - Organization for Economic Co-operation and Development;
IATA - International Air Transport Association;	OPPTS - Office of Chemical Safety and Pollution Prevention;
IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;	PBT - Persistent, Bioaccumulative and Toxic substance;
ICAO - International Civil Aviation Organization;	(Q)SAR - (Quantitative) Structure Activity Relationship;
IMDG - International Maritime Dangerous Goods;	REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
IMO - International Maritime Organization;	SDS - Safety Data Sheet;
ISO - International Organisation for Standardization;	TDG - Transportation of Dangerous Goods;
LC50 - Lethal Concentration to 50 % of a test population;	TSCA - Toxic Substances Control Act (United States);
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);	UN - United Nations;
MARPOL - International Convention for the Prevention of Pollution from Ships;	UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;
N.O.S. - Not Otherwise Specified;	vPvB - Very Persistent and Very Bioaccumulative;
NO(A)EC - No Observed (Adverse) Effect Concentration;	WES - Workplace Exposure Standard (Worksafe NZ)
The information contained herein is given in good faith, but no warranty, expressed or implied is made.	
This version replaces all previous versions.	