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CHESS INSECTICIDE

Version	
9.0	

Revision Date: 05.10.2021

This version replaces all previous versions.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	CHESS INSECTICIDE				
Design code	:	A9364J				
Manufacturer or supplier's de	Manufacturer or supplier's details					
Company	:	Syngenta Australia Pty Ltd (ABN 33 002 933 www.syngenta.com.au				
Address	:	2-4 Lyonpark Road Macquarie Park NSW 2113 Australia				
Telephone	:	(02) 8014 5200				
Emergency telephone number	:	13 11 26 (Poison Information Centre) 1800 033 111 (Syngenta)				
Telefax	:	(02) 8876 8446				
Recommended use of the chemical and restrictions on use						

: Insecticide

SECTION 2. HAZARDS IDENTIFICATION

Recommended use

GHS Classification Carcinogenicity	:	Category 2
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H351 Suspected of causing cancer.
Precautionary statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response:



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P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

May form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
pymetrozine (ISO)	123312-89-0	50
silica	61790-53-2	>= 5 -< 10
reaction product of naphthalene, butanol, sul- fonated and neutralized by caustic soda	Not Assigned	>= 1 -< 5

SECTION 4. FIRST AID MEASURES

General advice	:	Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
lf inhaled	:	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respira- tion. Keep patient warm and at rest. Call a physician or poison control centre immediately.
In case of skin contact	:	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
If swallowed	:	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	:	Nonspecific No symptoms known or expected.
Notes to physician	:	There is no specific antidote available. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES



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Suit	able extinguishing media	:	bon dioxide.	alcohol-resistant foam, dry chemical or car-
med	uitable extinguishing lia cific hazards during fire-	:	fire.	
fight	ing		will produce dens ucts of combustio Exposure to deco health.	e black smoke containing hazardous prod- n (see section 10). mposition products may be a hazard to
Spe ods	cific extinguishing meth-	:	courses.	off from fire fighting to enter drains or water niners exposed to fire with water spray.
for f	cial protective equipment irefighters chem Code	:		e clothing and self-contained breathing ap-

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Refer to protective measures listed in sections 7 and 8. Avoid dust formation.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for dis- posal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling :	This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammabil- ity characteristics of this material. The flammability character- istics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flamma- ble solvents.
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This material can become readily charged in most operations.Avoid contact with skin and eyes.When using do not eat, drink or smoke.For personal protection see section 8.Conditions for safe storage:Keep containers tightly closed in a dry, cool and well-	Version 9.0	Revision Date: 05.10.2021	SDS Number: S1355286099	This version replaces all previous versions.
ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.	Cond	itions for safe storage	Avoid contact wi When using do r For personal pro Keep containers ventilated place. Keep out of the r	th skin and eyes. not eat, drink or smoke. tection see section 8. tightly closed in a dry, cool and well- reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures :	THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.
	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.
	Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene ad- vice.
Personal protective equipment	L
Respiratory protection :	No personal respiratory protective equipment normally re- quired. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection	
Material : Break through time : Glove thickness :	Nitrile rubber > 480 min 0.5 mm
Remarks :	Wear protective gloves. 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 condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness



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Skin	protection and body protection	each case. Glo is any indication : No special prot : Choose body p tration and amo cific work-place Remove and w Wear as appro Dust imperviou	ash contaminated clothing before re-use.
FIGE		over the use of When selecting priate professio	personal protective equipment. personal protective equipment, seek appro- onal advice. ctive equipment should comply with relevant

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Colour	:	grey beige to brown
Odour	:	weak
Odour Threshold	:	No data available
рН	:	7 - 11 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Burning number	:	3 (20 °C)
		5 (100 °C)
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available



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	Relative	e vapour density	:	No data available	
	Density		:	No data available	
	Bulk de Solubili		:	0.4 - 0.6 g/cm3	
		er solubility	:	No data available	
	Solu	bility in other solvents	:	No data available	
	Partition octanol	n coefficient: n-	:	No data available	
		nition temperature	:	> 140 °C	
	Decom	position temperature	:	No data available	
	Minimu Viscosi	m ignition temperature	:	500 °C	
		osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties		The substance or	mixture is not classified as oxidizing.
		e tension		63.9 - 64.0 mN/m	-
		m ignition energy		> 10 J	, <u>y</u> ., <u>_</u>
			•		
	Particle	size	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	No dangerous reaction known under conditions of normal use.
tions		-
Conditions to avoid	:	No decomposition if used as directed.
Incompatible materials	:	None known.
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	: Ingestion Inhalation Skin contact Eye contact
Acute toxicity	

Product:



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Acute	e oral toxicity	: LD50 (Ra	at, female): > 5,000 mg/kg
Acute	inhalation toxicity	Exposure Test atm	at, male and female): > 2.55 mg/l e time: 4 h osphere: dust/mist ient: The substance or mixture has no acute inhala- ity
Acute	e dermal toxicity	: LD50 (Ra	at, male and female): > 5,000 mg/kg
<u>Com</u>	oonents:		
	e trozine (ISO): e oral toxicity	: LD50 (Ra	at, male): 5,693 mg/kg
Acute	inhalation toxicity	Exposure Test atm	at, male and female): > 1.8 mg/l e time: 4 h osphere: dust/mist ent: The substance or mixture has no acute inhala- ity
Acute	e dermal toxicity		at, male and female): > 2,000 mg/kg ent: The substance or mixture has no acute derma
			I, sulfonated and neutralized by caustic soda:
Acute	e oral toxicity	: LD50 (Ra	at): 1,800 mg/kg
Acute	inhalation toxicity	Exposure	at): 4.08 mg/l e time: 4 h osphere: dust/mist
Acute	e dermal toxicity	: LD50 (Ra	abbit): 3,000 mg/kg
Skin	corrosion/irritation		
Prod	<u>uct:</u>		
Speci		: Rabbit	
Resu	lt	: No skin i	rritation
<u>Com</u>	oonents:		
	etrozine (ISO):		
Speci Resu		: Rabbit : No skin i	rritation
Serio	us eye damage/eye i	rritation	
Produ	uct:		
Speci	es	: Rabbit	
Resu		. Nie stre is	ritation



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Components:

pymetrozine (ISO):		
Species Result	•	Rabbit No eye irritation

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Test Type	:	Buehler Test
Species	:	Guinea pig
Result	:	Did not cause sensitisation on laboratory animals.

Components:

pymetrozine (ISO):

Species Result	Guinea pig Did not cause sensitisation on laboratory animals.

Chronic toxicity

Germ cell mutagenicity	
Components:	

pymetrozine (ISO):

Germ cell mutagenicity -	:	Animal testing did not show any mutagenic effects.
Assessment		

reaction product of naphthalene, butanol, sulfonated and neutralized by caustic soda:

Germ cell mutagenicity - Assessment	:	In vitro tests did not show mutagenic effects
Carcinogenicity		

Components:

pymetrozine (ISO):

Carcinogenicity - Assess-	:	Increased levels of liver tumours were observed at high doses
ment		in rats and mice. The relevance of these findings to humans is
		questionable.
		Limited evidence of carcinogenicity in animal studies



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Repr	oductive toxicity			
Com	ponents:			
	etrozine (ISO): oductive toxicity - As- nent	:	Weight of evide ductive toxicity	ence does not support classification for repro-
STO	Г - single exposure			
Com	ponents:			
	e trozine (ISO): ssment	:		or mixture is not classified as specific target single exposure.
	ion product of naphtha ssment	alen :	The substance	onated and neutralized by caustic soda: or mixture is classified as specific target orga exposure, category 3 with respiratory tract
STO	Г - repeated exposure			
Com	ponents:			
pyme	etrozine (ISO):			
Asse	ssment	:		or mixture is not classified as specific target repeated exposure.
SECTION	12. ECOLOGICAL INF	ORI	MATION	
Ecote	oxicity			
Prod	uct:			
Toxic	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time:	a magna (Water flea)): estimated > 100 mg/l 48 h

Components:

pymetrozine (ISO):		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 87 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): 16.9 mg/l Exposure time: 96 h



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			NOEC (Raphi 6.28 mg/l Exposure time	docelis subcapitata (freshwater green alga)): e: 96 h
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Oncor Exposure time Test Type: Ea	
	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphi Exposure time	nia magna (Water flea)): 0.025 mg/l e: 21 d
	ty to microorganisms	:	EC50 (activat Exposure time	ed sludge): > 100 mg/l e: 3 h
reacti	on product of naphtha	len	e, butanol, sul	fonated and neutralized by caustic soda:
Toxici	ty to fish	:	LC50 (Danio i Exposure time	rerio (zebra fish)): > 100 mg/l e: 96 h
	ty to daphnia and other ic invertebrates	:	Exposure time	rmation given is based on data obtained from
Toxici plants	ty to algae/aquatic	:	200 mg/l Exposure time	rmation given is based on data obtained from
Persis	stence and degradabili	ity		
Comp	oonents:			
	trozine (ISO): gradability	:	Result: Not re	adily biodegradable.
Stabili	ity in water	:		alf life: 4.8 - 6.3 d duct is not persistent.
silica	:			
Biode	gradability	:	Result: Not re	adily biodegradable.
reacti	on product of participa	lon	e hutanol eu	fonated and neutralized by caustic soda:
	gradability	:	Result: Readi	ly biodegradable. Irmation given is based on data obtained from



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Bioad	ccumulative potential		
Com	oonents:		
	etrozine (ISO): coumulation	: Remarks: Low	bioaccumulation potential.
	ion coefficient: n- ol/water	: log Pow: -0.18	(25 °C)
Mobi	lity in soil		
<u>Com</u>	oonents:		
Distril menta	etrozine (ISO): bution among environ- al compartments lity in soil	: Dissipation tim Percentage dis	ntly mobile in soils le: 7.9 - 30 d ssipation: 50 % (DT50) duct is not persistent.
Othe	r adverse effects		
<u>Com</u>	oonents:		
Resu	e trozine (ISO): Its of PBT and vPvB esment	lating and toxic	e is not considered to be persistent, bioaccumu- c (PBT). This substance is not considered to be and very bioaccumulating (vPvB).
	: Its of PBT and vPvB ssment	lating and toxic	e is not considered to be persistent, bioaccumu- c (PBT). This substance is not considered to be and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues :	Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incinera- tion. If recycling is not practicable, dispose of in compliance with
Contaminated packaging :	local regulations. Non-returnable containers: Triple rinse containers. Add rinsings to spray tank If recycling, replace cap and return clean containers to recy- cler or designated collection point. Containers marked with the drumMUSTER container logo can be taken to a drumMUS- TER collection site (02 6206 6868, www.drummuster.org.au). Empty containers can be landfilled, when in accordance with



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the local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PYMETROZINE)
Class	:	9
Packing group	:	
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (PYMETROZINE)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(PYMETROZINE)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Transport in bulk according	to	Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.



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Class		(PYMETROZIN : 9	NE)

Class	:	9
Packing group	:	
Labels	:	9
Hazchem Code	:	2Z
Remarks	:	Environmentally Hazardous Substances meeting the descrip-
		tions of UN 3077 or UN 3082 are not subject to the Australian
		Code for the Transport of Dangerous Goods (ADG). This ap-
		plies when transported by road or rail in packagings that do
		not incorporate a receptacle exceeding 500 kg(L) or IBCs per
		ADG Special Provision AU01.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform : Schedule 5 Scheduling of Medicines and Poisons	
Prohibition/Licensing Requirements	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
Product Registration Number	: APVMA Approval No. 53311

SECTION 16. OTHER INFORMATION

Revision Date : 05.10.2021 Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-



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tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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