

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: CHESS WG
Design Code: A9364J
Recommended Use: Insecticide
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 734 607
National Poisons & Hazchem Information Centre : 0800 POISON (0800 764 766)

Section 2: HAZARDS IDENTIFICATION

Hazard classification: 6.9B, 9.1C
Priority Identifier: WARNING
KEEP OUT OF REACH OF CHILDREN

Secondary Identifiers: 6.9B = May cause reproductive organ damage from repeated oral exposure at high doses.
9.1C = Harmful to aquatic organisms.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:
Chemical Identity of ingredients:

Ingredient	CAS no.	Content (% w/w)
Pymetrozine	123312-89-0	50
Sodium dibutylphthalenesulphonate	25417-20-3	>=2.5-<10
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.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a Doctor or the National Poisons 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 doctor.
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 (if present). Immediate medical attention is required.
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:	None specific. No symptoms known or expected.
Indication of any immediate medical attention and special treatment needed:	
Treatment:	There is no specific antidote available. Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media:	
Suitable extinguishing media:	Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Large Fires: Alcohol resistant foam or water spray.
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: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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 material 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 disposal 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.

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: 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 flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

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, including any incompatibilities:

Requirements for storage areas and containers: No special storage conditions required. 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.

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
Pymetrozine	123312-89-0	0.8 mg/m ³	TWA	Syngenta
Silica	61790-53-2	4 mg/m ³	TWA	WES

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. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

Personal Protective Protection:

Eye protection: No special protective equipment required.

Hand protection:

Material: Impervious gloves, such as nitrile rubber
Break through time: >480 min
Glove thickness: 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 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:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Dust impervious protective suit.
Respiratory protection:	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Protective measures:	The use technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Granules
Colour:	Grey beige to brown
Odour:	Weak
Odour threshold:	No data
pH value	7-11, concentration: 1% w/v
Melting point / freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	No data
Flammability:	May form combustible dust concentrations in air.
Burning number:	3 (20°C) 5 (100°)
Upper / lower flammability / explosive limits:	No data
Vapour pressure:	No data
Vapour Density:	No data
Density:	0.4-0.6 g/cm ³ (25°C)
Solubility:	No data
Partition co-efficient: n-octanol / water:	Log Pow: -0.18 (25°C)
Autoignition temperature	500°C
Decomposition temperature:	No data
Dynamic viscosity:	No data
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising
Surface tension:	63.9 – 64.0 mN/m, 0.1 g/L, 20°C
Minimum ignition energy:	>1,000 mJ

Section 10: STABILITY AND REACTIVITY

Reactivity: None reasonably foreseeable.
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: None known
Hazardous Decomposition Products: No hazardous decomposition products are known.

Section 11: TOXICOLOGICAL INFORMATION

HSNO Classifications: 6.9B = May cause reproductive organ damage from repeated oral exposure at high doses.

Acute toxicity (similar composition)	
Swallowed:	LD ₅₀ 5000 mg/kg (rat, female)
Dermal absorption:	LD ₅₀ >5000 mg/kg (rat, male and female)
Inhaled:	LC ₅₀ (4 h) 3.09 mg/L (rat)
Aspiration hazard:	Not classified
Respiratory irritation:	Not classified
Skin corrosion / irritation:	NON-IRRITANT (rabbit)
Eye damage / irritation:	NON-IRRITANT (rabbit)
Respiratory or Skin Sensitisation:	NOT A SENSITISER (skin - guinea pig)
Chronic / Long Term Effects (active ingredient)	
Germ cell mutagenicity:	Animal testing did not show any mutagenic or teratogenic effects.
Carcinogenicity:	Increased levels of liver tumours were observed at high doses in rats and mice. The relevance of these findings to humans is questionable. Limited evidence of carcinogenicity in animal studies.
Reproductive toxicity:	No toxicity to reproduction.
Specific Organ toxicity:	<i>Single exposure:</i> The substance or mixture is not classified as specific target organ toxicant, single exposure. <i>Repeated exposure:</i> The substance or mixture is classified as specific target organ toxicant, repeated exposure, Class 6.9B.
Narcotic Effects:	Not classified

Section 12: ECOLOGICAL INFORMATION

HSNO Classifications: 9.1C = Harmful to aquatic organisms.	
Ecotoxicity Effects – aquatic (product)	
Acute toxicity to fish:	LC ₅₀ (96 h) = >100 mg/L (<i>Onchorhynchus mykiss</i> [rainbow trout])
Toxicity to daphnia and other aquatic invertebrates:	EC ₅₀ (48h) = >100 mg/L (<i>Daphnia magna</i> (water flea))
Toxicity to algae:	EC ₅₀ (96 h) = >100 mg/L (<i>Pseudokirchneriella subcapitata</i> [green algae])
Ecotoxicity Effects – terrestrial (active ingredient unless otherwise specified)	
Toxicity to Birds:	LD ₅₀ = 2000 mg/kg (mallard duck and bobwhite quail)
Toxicity to soil dwelling organisms:	Similar product: LC ₅₀ (14 days) = 1098 mg/kg (earthworms)

Toxicity to Bees:	Similar product: LD ₅₀ (48 h oral) = >200 µg/bee Similar product: LD ₅₀ (48 h contact) = >200 µg/bee
Persistence and degradability:	
Biodegradability:	Not readily biodegradable
Stability in water:	Degradation half-life: 4.8 – 6.3 d Not persistent in water.
Bioaccumulative potential:	
Bioaccumulation:	Low bioaccumulation potential
Partition coefficient: n-octanol/water:	Log Pow: -0.18 (25°C)
Mobility in soil:	
Distribution among environmental compartments:	Slightly mobile in soils.
Stability in soil:	Dissipation time: 7.9 – 30 d Percentage dissipation: 50% (DT ₅₀) 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 crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Section 14: TRANSPORT INFORMATION

Rail / Road (NZS 5433)	UN-No: 3077 Class: 9 Packing Group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (pymetrozine)
Sea (IMDG-Code)	UN-No: 3077 Class: 9 Packing Group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (pymetrozine) EmS Code: F-A, S-F MARINE POLLUTANT: Yes
Air (IATA)	UN-No: 3077 Class: 9 Packing Group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (pymetrozine) Packing instruction: Y956 (cargo and passenger aircraft)

Section 15: REGULATORY INFORMATION

HSNO Approval Number:	HSR000412
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 5783
ACVM Controls:	See www.foodsafety.govt.nz/industry/acvm 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:	6
Version number of SDS:	20 August 2020
Key / Legend to abbreviations and acronyms used:	
<p>AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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 System; 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; KECl - 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);</p>	
<p>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 ActivityRelationship; 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; 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; WES – Workplace Exposure Standard (Worksafe NZ) WHMIS - Workplace Hazardous Materials Information System</p>	
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