



Safety Data Sheet

SDS No.:
SDS-IM/FG-Z/01

Zeta-One 10SC

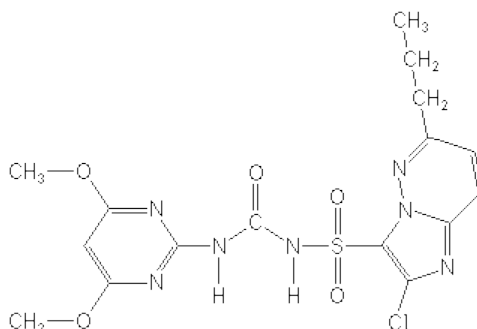
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Propyrisulfuron 10SC
Trade Name: Zeta-One 10SC
Active Ingredient: 1-(2-chloro-6-propylimidazo[1,2-*b*]pyridazin-3-ylsulfonyl)-3-(4,6-dimethoxypyrimidin-2-yl)urea
CAS No.(AI): 570415-88-2
Structural Formula:



Recommended Usage: Crop protection herbicide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Hazardous to the Aquatic Environment – Acute Hazard, Category 1
Hazardous to the Aquatic Environment – Chronic Hazard, Category 1

Pictogram:



Signal Word: Warning



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Hazard Statement:

H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P273: Avoid release to the environment
P391: Collect spillage.
P501: Dispose of contents/containers appropriately in accordance with local/regional/national/international regulations

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Propyrisulfuron	570415-88-2	10%w/v	No data
Surfactant etc.l	-	Balance	No data

Section 4: First-aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing. Rinse nose, mouth and throat with water. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Skin Contact: Remove/Take off immediately all contaminated clothing and shoes. Gently wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention.

Eye Contact: Do not rub eye. Hold eyelids apart. Begin to rinse with water as soon as possible and rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not give victim anything to drink if he is unconscious. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm with a blanket etc. Get immediate medical advice/attention. . If vomiting occurs, keep head low so that stomach content does not get into the lungs. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing. Effect of exposure to substance may be delayed. Medical observation is indicated.

Symptoms: No data

Notes to Physician: No data



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Section 5: Fire-fighting Measures

- Suitable Extinguishing Media:** Small fires: Dry chemical powder, carbon dioxide, water spray, alcohol-resistant foam, and use fire-extinguishing media appropriate for surrounding materials.
Large fires: Water spray, fog, alcohol-resistant foam, and use fire-extinguishing media appropriate for surrounding materials.
- Specific Hazard During Fire:** Containers may explode when heated. Risk of fire and explosion on contact with incompatible materials. Runoff and fire control water may pollute waters.
- Special Protective Equipment:** Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection from heat, and may not provide adequate protection from the harmful vapors or liquids.

Section 6: Accidental Release Measures

- Personal Precautions:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8. Isolate spill or leak area for proper distance in all directions. Provide adequate ventilation. Keep unwind.
- Environmental Precautions:** Prevent entry spilled material and runoff from spillage control into waterways, sewers, basements or confined areas. Avoid release to the environment. Collect spillage.
- Method for Cleaning Up:** Stop leak if possible without any risk. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in dry earth, sand or other non-combustible material and remove to safe place. For large spill, dike far ahead of liquid spill for later disposal.

Section 7: Handling and Storage

- Precautions for Safe Handling:** Use only outdoors or in a well-ventilated area. Keep upwind for handling outdoors as much as possible. Keep unauthorized personnel away. Avoid contact with eyes, skin, and clothing. Wash hands and face thoroughly after handling. Eating, drinking and smoking in work areas is prohibited. Contaminated work clothing should not be allowed out of the workplace.



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Conditions for Safe Storage: Keep containers tightly closed. Well ventilate by proper manner according to regional, national and local regulations. Store in a dry place. Keep away from incompatible materials. Keep away from food and feedstuffs.

Incompatibles: Strong oxidizers, strong acids, strong bases.

Section 8: Exposure Control and Personal Protection

Exposure Limit: No data available.
Engineering Control: Maintain eyewash fountain and quick-drench facilities in work area.
Individual Protection Measure: Do not eat, drink or smoke during work. Wash thoroughly after handling and before eating or drinking. Contaminated work clothing should not be allowed out of the workplace.
Personal Protective Equipment:
Eye Protection: Chemical safety goggles or glasses and full face shield
Skin Protection: Suitable impervious protective clothing, including protective footwear, gloves, lab coat, apron or coveralls
Respiratory Protection: Wear positive pressure self-contained breathing apparatus (SCBA) in circumstance above occupational exposure standards for dust including emergency procedures and cleaning for accidental release.

Section 9: Physical and Chemical Properties

Appearance: Brown liquid
Odour: Slightly characteristic odour
Odour Threshold: No data available
pH: 5.8
Melting/Freezing Point: No data available
Initial Boiling Point: No data available
Boiling Range: No data available
Flash Point: > 80°C (Tag closed cup)
Evaporation Rate: No data available
Flammability: No data available
Upper Flammability Limit: No data available
Lower Flammability Limit: No data available
Vapour Pressure: No data available
Vapour Density: No data available
Relative Density: 1.061 (20°C)
Density: 1.066 g/ml (20°C)
Solubility in Water: No data available
Partition Coefficient $P_{o/w}$: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available



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Section 10: Stability and Reactivity

Reactivity:	No data available
Chemical Stability:	Material is stable under normal conditions
Hazardous Reaction:	Strong oxidizers, strong acids, strong bases: fire and explosion hazards
Condition to Avoid:	Heating, evaporation of liquid and dryness of solid component
Incompatible Material:	Strong oxidizers, strong acids, strong bases
Hazardous Decomposition Product:	Carbon monoxide, carbon dioxide, hydrocarbons, sulfur oxides, nitrogen oxides, hydrogen chloride, chloride compounds, ammonia, soot

Section 11: Toxicological Information

11.1 Acute Toxicity

Ingestion, Oral LD ₅₀ :		
	Rat	>2000mg/kg
Skin Contact, Dermal LD ₅₀ :		
	Rat	>2000mg/kg
Inhalation, LC ₅₀ (4h)(Dust/mist):		
	Rat	>4.3 mg/l

11.2 Chronic Effect from Short and Long Term Exposure

Skin corrosion/irritation test:		
	Rabbit	Not irritating
Eye corrosion/irritation test:		
	Rabbit	Practically not irritating
Sensitization (Buehler test):		
	Guinea pig	Non-sensitizer
Component: Propyrisulfuron		
Germ cell mutagenicity:		
In vitro		
	Ames test (<i>S.typhimurium</i> and <i>E.coli</i>)	Negative
	Chromosome aberration test (Chinese hamster cell)	Negative
In vivo		
	Micronucleus test (mouse, oral, bone marrow)	Negative
Carcinogenicity:		
	Rat carcinogenicity study (diet)	Non-carcinogenic
	Mouse carcinogenicity study (diet)	Non-carcinogenic
Reproductive Toxicity (Teratogenicity):		



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	Rat teratology study (oral)	Non-teratogenic, non-embryo/fetal lethal
	Rabbit teratology (oral)	Non-teratogenic, non-embryo/fetal lethal
	Reproductive Toxicity (Reproduction):	
	Rat reproductive toxicity study (diet)	No effect on fertility, no effect on reproduction, non-embryo/fetal lethal
	Specific Target Organ Toxicity-Single Exposure:	No specific target organs noted
	Specific Target Organ Toxicity-Repeated Exposure:	No specific target organs noted

11.3 Symptoms

No data available

Section 12: Ecological Information

Ecotoxicity:

Component: Propyrisulfuron		
Acute Toxicity:		
	Fish, Common Carp, LC ₅₀ , 96 hr	>9.6mg/L
	Crustacea, <i>Daphnia magna</i> , EC ₅₀ , 48hr	>9.6mg/L
	Alga, Green algae, ErC ₅₀ , 0-72hr	>0.011mg/L
Chronic Toxicity:		
	Alga, Green algae, NOECr, 0-72hr	0.00099mg/L

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effect: No data available

Section 13: Disposal Information

Dispose of contents/containers appropriately in accordance with local/regional/national/international regulations

Section 14: Transportation Information

Land (ADR/RID)	
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
Hazchem Code	-
UN number	3082
Packing Group	III
Label / Mark	9



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Sea (IMDG)

Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
UN Number	3082
Packing Group	III
Marine Pollutant	-
Label	9
Transport Document Name	-

Air (IATA)

Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
UN number	3082
Packing Group	III
Label / Mark	9
Transport Document Name	-

Section 15: Regulatory Information

Classification: Hazardous to the Aquatic Environment – Acute Hazard, Category 1
Hazardous to the Aquatic Environment – Chronic Hazard, Category 1

Signal Word: Warning

Pictogram:



Pesticides Act: Class IV

Classification: -

Section 16: Other Information

Date of Preparation: 27 February 2016

Date of Revision: -

Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
GHS Purple Book
MSDS

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.