

1: IDENTIFICATION

Chemical Name	Dinotefuran: 2-methyl-1-nitro-3-(oxolan-3-ylmethyl)guanidine Pymetrozine: 6-methyl-4-[(E)-pyridin-3-ylmethylideneamino]-2,5-dihydro-1,2,4-triazin-3-one	Trade Name	DIMITRON
Synonyms	Dinotefuran 15% + Pymetrozine 45% WG	Molecular Formula	C ₇ H ₁₄ N ₄ O ₃ + C ₁₀ H ₁₁ N ₅ O
Uses	Fungicide		
Manufacturer/Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Pymetrozine	123312-89-0	45.0%
Dinotefuran	165252-70-0	15.0%
Other ingredients	-	QS

3: HAZARD IDENTIFICATION

Label Elements :	Pictogram: GHS08	Signal Word: DANGER
Hazard Statement:	H316 Causes mild skin irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H412 Harmful to aquatic life with long lasting effects
Precaution Phrase	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ eye protection/ face protection. P270 Do not eat, drink or smoke when using this product. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	P284 Wear respiratory protection P273 Avoid release to the environment. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P271 Use only outdoors or in a well-ventilated area. P264 Wash skin thoroughly after handling.

4: FIRST AID MEASURES

General: 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. Never give fluids or induce vomiting if patient is unconscious or is having convulsions. Seek medical advice immediately (show the label where possible)

Inhalation: Remove to fresh air. Consult a physician if irritation develops

Ingestion: Do not induce vomiting. Provided the patient is conscious. Wash mouth with water and give plenty of water to drink. Consult a physician or Doctor if victim feels unwell.

Skin Contact: Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Note to physician: Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient

Most Important symptoms and effects, both acute and delayed:
 Skin contact: There may be mild irritation at the site of contact
 Eye contact: There may be irritation and redness.
 Ingestion: There may be soreness and redness of the mouth and throat

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, Carbon dioxide, Dry chemical powder.

Exposure hazards: May form flammable / explosive dust-air mixture. In combustion emits toxic fumes of sulphur Oxides, nitrogen oxides, carbon dioxide / carbon monoxide.

Special Procedures: Fire fighters should wear full protective clothing and self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

Protection of Fire Fighters: Wear self-contained breathing apparatus for firefighting if necessary..

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Eliminate all sources of ignition, Do not create dust.

Environmental Precaution: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods for Cleaning up: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7: HANDLING & STORAGE

Handling: KEEP OUT OF REACH OF CHILDREN and animals. Prevent eating, drinking, and tobacco use in areas where there is a potential for exposure to the material. Wear full protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Wash contaminated clothing separately. Keep containers closed when not in use. Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools.

Storage: Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Keep in original containers, out of reach of children. Never allow the product to become wet during storage. This may lead to chemical changes, which will reduce the effectiveness as a fungicide and could create flammable vapours. Must only be kept in original packaging.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Wear approved respirator.

Hand Protection: Protective gloves. Requirements can vary as a function of the use. Therefore, it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin Protection: Mixers and loaders must wear overalls, protective goggles and chemical-resistant apron.

Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

Eye Protection: Safety glasses /goggles.

9:PHYSICAL/CHEMICAL PROPERTIES

Physical State: Solid	Colour: Beige to brown	Solubility in water: Forms suspension in water
Flash point °C: Not Applicable	pH (1% aq. Sol.): 5 to 8.5 (1% dispersion)	Odour: Faint characteristic odour
		Melting point °C: Not applicable

10:STABILITY & REACTIVITY

Stability: Stable under normal conditions **Reactivity:** No data available **Conditions to avoid:** Excessive temperatures.

Hazardous decomposition products: Decomposition on heating above 22°C. Decomposed on heating in alkaline media with the formation of copper oxides. Decomposition will evolve toxic and irritant vapors.

11: TOXICOLOGICAL INFORMATION

Hazardous Ingredients: DINOTEFURAN and PYMETROZINE

Acute toxicity (Assessment largely or completely based on data for active substance)

Acute Oral LD50 (Rat) Pymetrozine : > 5000 mg/kg; Dinotefuran : > 5000 mg/kg

Acute Dermal LD50 Pymetrozine : > 5000 mg/kg; Dinotefuran : > 5000 mg/kg

Acute Inhalation LD50 Pymetrozine : 3.09 mg/l (4 h); Dinotefuran : > 2.34 mg/L

EYE Irritation (Rabbit) Minimal Irritating to eyes SKIN Irritation (Rabbit) Slightly irritant Skin Sensitization (Guinea Pig) Potential Dermal Sensitizer

12: ECOLOGICAL INFORMATION

Ecotoxicity: (Assessment largely or completely based on data for active substance)

Aquatic toxicity : Material is very toxic to aquatic organisms.

Fish Pymetrozine & Dinotefuran : > 100 mg/L (rainbow trout)

Birds LD50 Pymetrozine & Dinotefuran : > 2000 mg/kg Mallard Duck

Algae EC50 (96 h) Pymetrozine & Dinotefuran : > 100 mg/L

Honey Bees LD50 Pymetrozine & Dinotefuran : highly toxic.

Daphnia EC50 (48 hr) Pymetrozine & Dinotefuran : > 10mg/L

Environmental Fate Persistence and Degradability: Not readily degradable

Bio-accumulation potential: No data

Mobility in soil: Potential for mobility in soil is low.

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

14: TRANSPORT INFORMATION

UN No. 3077 **Proper Shipping Name:** Environmentally Hazardous Substance, solid, n.o.s. (Pymetrozine & Dinotefuran)

Land Transport (ADR/RID): Class-9, Packing Group-III

Sea Transport (IMO) (IMDG): Class-9, Packing group-III, Marine Pollutant-Yes, EmS: F-A, S-F

Air Transport (IATA): Class-9, Packing group-III,

15: REGULATORY INFORMATION

Hazard symbol: Xn : Harmful

Risk Phrase: R22 : Harmful if swallowed.

R51/5 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Safety Advice

Safety Phrase: S2 Keep out of reach of children S60 This material and its container must be disposed of as hazardous waste

S24/25 Avoid contact with skin and eyes. S36/37 Wear suitable protective clothing and gloves

S57 Use appropriate containment to avoid environmental contamination.

S61 Avoid release to the environment, refer to special instructions/safety data sheets

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16: OTHER INFORMATION

DISCLAIMER OF LIABILITY The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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