

1: IDENTIFICATION

Chemical Name	Pyraclostrobin 3.5% + Thiram 15% + Clothianidin 22.5% FS	
Synonyms	Pyraclostrobin 3.5% + Thiram 15% + Clothianidin 22.5% FS	Trade Name PETRA 3D
Uses	Fungicide	Molecular Formula C ₁₉ H ₁₈ ClN ₃ O ₄ + C ₆ H ₁₂ N ₂ S ₄ + C ₆ H ₈ ClN ₅ O ₂ S
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)
Pyraclostrobin	175013-18-0	3.50%
Thiram	137-26-8	15.00%
Clothianidin	210880-92-5	22.50%
Other Inert Ingredient	-	59.00%

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Acute Toxicity (oral) 4	Acute Toxicity (inhalation-mis Aquatic Acute 1 Aquatic chronic 1
Human health Hazard:	H302 Harmful if swallowed.	H332 Harmful if inhaled
Environmental Hazard:	H410 Very toxic to aquatic life with long- term effects in the aquatic environment. H400: Very toxic to aquatic life	

4: FIRST AID MEASURES

General: Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.

Inhalation: Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing is difficult, treat with artificial respiration. Immediately seek medical attention if symptoms are severe or persist

Ingestion: Rinse mouth with water thoroughly and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by physician. Seek medical attention or poison control center immediately and show this container or label.

Skin Contact: In case of contact with product, remove contaminated clothes and wash exposed skin area with plenty of water and soap immediately. Seek medical attention if irritation persists.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to physician: No specific Antidote. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, foam, dry powder, carbon dioxide

Unsuitable Extinguishing Media: Solid water stream, as it may scatter or spread the fire

Specific Hazards: In the event of fire, dense black smoke containing hazardous products may produce as the product contains combustible organic ingredients

Hazardous Thermal (de)composition: Thermal decomposition will evolve toxic and irritant vapors.

Special Procedures: Collect extinguishing water separately and do not discharge into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Protection of Fire Fighters: Do not breathe a fumes, Wear fire/ flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate the spillage area and ensure that there is no source of ignition. Evacuate personnel to safe areas. Keep people away from spill/ fumes. Avoid contact with spilled material or contaminated surfaces. Remove immediately contaminated clothes. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning-up: Adsorb spillages using non-combustible adsorbent material. Transfer to a container for disposal. Clean contaminated floors and objects thoroughly with water and detergents. Wear suitable protective equipment.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothes, gloves, goggles/face shield to avoid contact and/or inhalation with the product.

Specific Conditions: Good exhaust ventilation

Storage: Store in dry, cool, well-ventilated area, and away from heat and direct sunlight. Keep in original container and tightly closed when not in use. Keep product away from seeds, fertilizer, foods and animal feeds.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation or other engineering controls. Set up emergency exits and the risk-elimination area. Facilities storing or utilizing this material should be equipped with eyewash facility and safety shower. Handle in accordance with good industrial hygiene and safety practice.

General Protection: Avoid breathing dust, vapours or aerosols. Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves, shoes plus socks, chemical resistant headgear for overhead exposures. 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: Always use NIOSH/MSHA approved respiratory Protection equipment with a universal filter type including particle filter.

Skin Protection: Wear suitable protective clothing, including long sleeved shirt, long pants, gloves, coveralls, and boots to avoid skin contact.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety goggles, chemical splash goggles or face shield should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Pink viscous suspension liquid

Physical State: Liquid

Solubility in water: No data available

Colour: Pink

Odour: No data available

Relative Density[gm/cc]: 1.20 to 1.25

pH: 5-8 (1% Aqueous solution)

Auto-ignition Temperature[°C]: 410

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances

Conditions to Avoid: No special measures if handled and stored as instructed /prescribed

Hazardous Decomp. Products: Combustion or thermal decomposition may release toxic and irritant vapours.

Materials to Avoid: None known

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]: >3000

Rat inhalation LC50 [mg/l/4h]: >5.1

Skin irritation (rabbit): Mild irritant

Dermal (rat) LD50 [mg/kg]: >4000

Skin Sensitization (Guinea Pig): Non-Sensitizer

Eye irritation (rabbit): Non-irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Rainbow trout LC50 (96 hrs) [mg/L]: > 100

Water flea EC50 (48 hrs) [mg/L]: 40

Green algae EC50 (72 hrs)[mg/L]: 120

Bio-accumulation Potential: Low potential to bioaccumulate.

Persistence, Degradability and Mobility in soil: Not readily biodegradable. Moderately mobile in soils.

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14: TRANSPORT INFORMATION

UN No. 3082 **Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. Contains (Pyraclostrobin + Thiram + Clothianidin)

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

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

Air Transport (IATA / ICAO): Class-9 Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: GHS09, GHS07

H- Statement: H302, H332, H400, H410

16: OTHER INFORMATION

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