

1: IDENTIFICATION

Chemical Name	3,4-dimethyl-2,6-dinitro-N-pentan-3-yl aniline	
Synonyms	Pendimethalin 38.7 % CSA	Trade Name PERPENDI XTRA
Uses	Herbicides	Molecular Formula C ₁₃ H ₁₉ N ₃ O ₄
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)
Pendimethalin	40487-42-1	38.70%
Other Ingredients	-	61.30%

3: HAZARD IDENTIFICATION

Physical/ Chemical Hazard:	Acute toxicity, Category 4; Reproductive toxicity, Category 1B
Human Health Hazard:	H302 Harmful if swallowed. H360Df May damage the unborn child. Suspected of damaging fertility.
Environment Hazard:	Very toxic (acute effect) to fish, aquatic invertebrates and aquatic plants

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. Keep the patients warm and at rest. If person is not breathing then give artificial respiration, preferably mouth-to-mouth if possible. Allow patients to rest. Immediately seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

Skin Contact: In case of contact with product, wash immediately skin area with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Call medical attention.

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 antidotes. 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 and spread fire.

Specific Hazards: In case of fire, product may produce dense black smoke containing hazardous products of combustion as it contain combustible organic ingredients and exposure to this smoke may be a hazard to health.

Hazardous Thermal (de)composition: May release irritating and toxic gases due to thermal decomposition

Special Procedures: Evacuate area and fight fire upwind from a safe distance. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Do not discharge extinguishing water into the drain or water bodies.

Protection of Fire Fighters: Do not breathe a fumes. Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from spill/ fumes.

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

Methods for Cleaning up: Clean up any spills as soon as possible, using an absorbent material such as sand, soil, diatomaceous earth etc. Collect and transfer into containers for disposal. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of in accordance with local regulations. If significant amount of product enters into drain, notify the local authorities.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Good personal hygiene procedures must be practiced.

Specific Conditions: Good local exhaust ventilation.

Storage: Store in dry, cool, well-ventilated area and out of reach of children. Keep in original container and tightly closed when not in use and away from fertilisers, seed, feed and food. Keep away from direct sunlight, open fire and sparks.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure area is well-ventilated, especially confined area. Handle in accordance with good industrial hygiene and safety practice.

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: Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.

Skin Protection: Must wear suitable protective clothing including long-sleeve shirt, long pants, shoes plus socks. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

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 for eyes protection should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Suspension

pH: 7 - 8

Physical State: Liquid

Colour: Yellow to brown

Odour: Faint odour nutty

Solubility in Water: Emulsifiable

10: STABILITY & REACTIVITY

Stability: Stable for under normal circumstances

Hazardous Decomposition Products: Decompose at high temperatures forming toxic gases.

Materials to Avoid: Strong alkaline material, acid or oxidizing materials

Hazardous Reactions: No polymerization will occur.

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >5000

Rat inhalation LC50 [mg/l/4h] : >5.23

Skin irritation (rabbit): Mild irritant

Dermal (rat) LD50 [mg/kg]: >5000

Skin Sensitization (Guinea Pig): Non-sensitizer

Eye irritation (rabbit): Mild irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Rainbow trout LC50 (96 hrs)[mg/L]: 0.89

Daphnia magna LC50(48 hrs) [mg/L]: 0.977

Honey Bee LC50[µg/bee]: 49.8

Bio-accumulation Potential: No data available

Persistence, Degradability and Mobility in soil: No data available

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only by using according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add rinsing's to spray tank.

Contaminated Packaging: Empty remaining contents and the rinse containers thrice before disposal. Empty containers should be taken at a local authority landfill for disposal. 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. Do not re-use empty containers unless they are specifically designed to be refilled. Empty containers and product should not be burnt.

14: TRANSPORT INFORMATION

UN No. 3082 **Proper Shipping Name:** Environmentally hazardous substance, Liquid, N.O.S. (Pendimethalin 30%)

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

15: REGULATORY INFORMATION

Hazard Symbol: GHS09 , N: Dangerous for the environment

Risk PhraseS : R 22, R38, R41, R43

Safety Phrases: S 1/2, S26, S35

16: OTHER INFORMATION

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