

1: IDENTIFICATION

Chemical Name	(RS)-2-(2, 4-dichlorophenyl)-1-(1H-1, 2, 4-triazol-1-yl) hexan-2-ol.		
Synonyms	Hexaconazole 5% SC	Trade Name	HEXZA
Uses	Fungicides	Molecular Formula	C ₁₄ H ₁₇ Cl ₂ N ₃ O
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)
Hexaconazole (based on 92% purity)	79983-71-4	5.43%
Other ingredients	-	94.57 %

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Acute skin irritation Category 3	Aquatic acute Category 2
Human Health Hazard:	H302 Harmful if swallowed.	H316 Causes mild skin irritation.
Environmental Hazard:	H 410 Very toxic to aquatic life with long- term effects in the aquatic environment. H400: Very toxic to aquatic life	

4: FIRST AID MEASURES

General: First aid personnel should pay attention to their own safety and use protective equipment if there is a potential for exposure to product. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

Inhalation: Move patients to fresh air. Keep the patients warm and at rest. Allow patients to rest. If breathing is irregular or stopped, administer artificial respiration. Immediately seek medical attention.

Ingestion: If the material was swallowed and signs of toxicity are severe, induce vomiting. Keep the person calm and comfortable and seek medical assistance as soon as possible.

Skin Contact: In case of contact with product, immediately wash with plenty of water and soap. Remove and isolate contaminated clothing and shoes. Seek medical attention.

Eye Contact: Rinse immediately with plenty of water for several minutes with eyes wide open. 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 or sand

Unsuitable Extinguishing Media: Water jet

Specific Hazards: Combustion or thermal decomposition will evolve toxic and irritant vapors.

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

Special Procedures: Whenever Hexaconazole is involved in a major fire, advise the fire service to wear protective clothing and breathing apparatus. Inform the fire service and other relevant authorities that Hexaconazole is toxic to aquatic organisms, and that water should be used only to cool unaffected stock. In this way, the accumulation of polluted runoff from the site is prevented.

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: 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. Do not discharge into the subsoil/soil.

Methods for Cleaning-up: Adsorb spillages onto sand, earth or any suitable 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: Mechanical ventilation should be used when handling this product in closed spaces.

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: Mechanical ventilation should be used when handling this product in closed spaces. 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: NIOSH approved organic vapor respirator in absence of mechanical ventilation.

Skin Protection: Wear suitable protective clothing including boots, gloves, lab coat, apron or cover all, as appropriate to avoid skin contact. 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: Liquid	Density: 1.04 g/ml	Physical State: Liquid	
Colour: White	Odour: Odorless	Solubility in water: Emulsifiable	pH: 6-8 (1% Aqueous solution)

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances upto 2 years

Conditions to Avoid: Avoid excessive heat and flame

Hazardous Decomp. Products: Thermal decomposition may release ammonia, carbon monoxide and carbon dioxide and oxides of nitrogen

Materials to Avoid: Strong acidic, strong alkaline materials

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]: >2000	Rat inhalation LC50 [mg/l/4h] : >5.9	Skin irritation (rabbit): Non-Irritant
Dermal (rat) LD50 [mg/kg]: >2000	Skin Sensitization (Guinea Pig): Non-Sensitizer	Eye irritation (rabbit): Moderate Irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Bees LD50: 0.1 mg/bee	Mallard ducks LC50 (8d): >4000 mg/kg	Mirror carp LC50 (96 hrs) mg/L: 5.94
Rainbow trout LC50 (96 hrs) mg/L: 3.4	Sheep head minnows LC50 (96 hrs) mg/L: 5.4	

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. Disposal of product would usually be by incineration in an appropriate licensed commercial incinerator. Advice may be obtained from local waste regulation authorities.

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. 2902 **Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. Hexaconazole 5% SC

Land Transport (ADR/RID): Class-6.1, Packing Group-III

Sea Transport (IMO/IMDG): Class-6.1, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA / ICAO): Class-6.1 Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: Xn: Harmful	International WHO Toxicity: IV - Non-toxic Classification
Risk Phrase: R22, R51/5	Safety Phrase: S2, S24/25, S36/37, S57, S60, S61

16: OTHER INFORMATION

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