

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** : HEXACONAZOLE 5% EC

**Common Name** : Hexaconazole

**IUPAC Name** : (RS)-2-(2, 4-dichlorophenyl)-1-(1H-1, 2, 4-triazol-1-yl)

hexan-2-ol.

**Chemical** :  $(\pm)$ -  $\alpha$  -butyl-  $\alpha$  -(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-

**Abstracts Name** ethanol

**CAS No.** : [79983-71-4]

 $\begin{array}{lll} \textbf{Chemical formula} & : & C_{14}H_{17}Cl_2N_3O \\ \end{array}$ 

**Molecular weight** : 314.2

**Chemical Family** : Triazole

Use : Fungicide

**Company Name** : HPM Chemicals & Fertilizers Ltd.

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name CAS No. Content % (w/w)

Hexaconazole (a.i.) 79983-71-4 5.00 Others - 95.0

### 3. HAZARDS IDENTIFICATION

**Health Hazards**: Triazole pesticides are toxic and are metabolised into

variable products depending on the nature of the parent

compound. They may be slightly irritating to the skin,

but severely irritating to the eye. They affect the

nervous, reproductive and blood systems, and have

been shown to developmental toxicity.

**Emergency**: Warning! Keep out of reach of children. Toxic if

swallowed and inhaled. Contact can cause eye or skin

irritation.

**Skin and Eyes** : Avoid contact with mouth, skin and eyes.

**Entry route** : Ingestion, Inhalation, Contact with eye or skin.

Symptoms of poisoning: Nervousness, anxiety, tremors, convulsions and

allergic manifestations.

#### 4. FIRST AID MEASURES

**Ingestion**: If swallowed, induce vomiting by tickling the back of

throat. Repeat it until the vomit is clear. Do not induce

vomiting if the patient is unconscious.

Eye : If eyes are contaminated, flush with plenty of clean

water for about 10-15 minutes.

**Skin**: If clothing and skin are contaminated, remove the

clothes and wash the contaminated skin with copious

amount of soap and water.

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**Combustion products** 

## **MATERIAL SAFETY DATA SHEET**

**Inhalation**: If inhaled, get the victim into fresh air.

**Advice to Physician** : No specific Antidote. Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Specific Hazard : There is no risk of an explosion from this product

under normal circumstances if involved in a fire.

**Extinguishing Media** : Extinguish fire using media suited to burning material.

If containers are ruptured contain all runoff. CO2, Foam or dry chemical are preferred. Soft stream water fog or fine water sprays if no alternatives. Contain all

runoff.

Hazard From : If involved in a fire, it will emit toxic and noxious

fumes of oxides of carbon, nitrogen or sulfur. Firefighters to wear self-contained breathing apparatus

and suitable protective clothing if risk to of exposure

to vapour or smoke.

**Protective equipment**: Wear full protective clothing and self-contained

breathing apparatus. Do not breathe or contact smoke,

gases or vapours generated.

#### 6. ACCIDENTAL RELEASE MEASURES

In Case of Emergency : Isolate and post spill area. Wear cotton overalls

buttoned to the neck and wrist, washable hat, elbowlength PVC gloves and eye/face protection to prevent skin and eyes being affected. Evacuate unprotected

and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourses. Contain spill and absorb

spilled material with absorbent material such as sand,

clay or cat litter and dispose of waste as per

regulations.

Clean up Procedures : To decontaminate spill area, tools and equipment,

wash with detergent and water and add the solution to the drums of wastes already collected and label

contents. Do NOT allow spilled product or wash

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solution to enter sewers, drains, dams, creeks or any other waterways.

#### 7. HANDLING AND STORAGE

**Handling**: Ensure

: Ensure containers are kept closed until using product. Avoid contact with eyes and skin. Wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves.

Storage : DO NOT store near (or allow to contact) fertilizers,

fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children,

animals, food, feed stuffs, seed and fertilizers.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** : Good general ventilation should be sufficient for most

conditions. Local exhaust ventilation may be necessary

for some operations.

**Ingestion** : DO NOT eat, drink or apply cosmetics, where there is

a potential for exposure to the product.

**Eye Protection** : Safety goggles, chemical splash goggles or face shield

for eyes protection should be used. Safety showers and

eye wash should be easily available.

**Skin Protection** : Chemical resistant gloves, coveralls socks, apron and

chemical resistant foot covering should always be used

while handling the product.

**Respiratory protection**: Always use NIOSH/MSHA approved respiratory

protection equipment with a universal filter type

including particle filter.

**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.



#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Colour** : Colorless to light yellow

Odour : Faint Odour
Physical state : Powder
Bulk Density : 1.29 g/ml

**Solubility(in water)** : 0.017 g/L at 20°C

### **10. STABILITY AND REACTIVITY**

Chemical Stability : Stable under normal, dry storage conditions. Slowly

decomposed by heat and moisture.

**Conditions to Avoid** : No special precautions other than good housekeeping

of chemicals.

Hazardous

decomposition products

: Thermal decomposition products may emit oxides of carbon and nitrogen. And possibly hydrogen chloride

**Incompatibilities** : Incompatible with oxidation materials and acids

### 11. TOXICOLOGICAL INFORMATION (Technical)

Acute Oral LD<sub>50</sub> : LD<sub>50</sub> (rats) > 2189 mg/kg

**Acute Dermal LD**<sub>50</sub> : LD50 (Rats) > 2,000 mg/kg b.w

**Acute Inhalation LC**<sub>50</sub> : LC50 (rats) : 5.9 mg/l

**Skin Irritation** : Skin irritant

**Eve Irritation** : Rabbit : Moderate Irritant

**Skin Sensitization** : Is a skin sensitizer

## 12. ECOLOGICAL INFORMATION (Technical)

For active ingredient -

Bird : Acute oral LD50 for (8 d) for Mallard

ducks >4000 mg/kg

Fish : LC50 (96 h) for Rainbow trout 3.4

mg/l, Mirror carp 5.94 mg/l, Sheep

head minnows 5.4 mg/l

**Daphnia** : LC50 (48h) 2.9 mg/l

Bees : LD50 (Oral, Contact, 48 h) : 0.1 mg/

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bee

### 13. DISPOSAL CONSIDERATIONS

**Disposal** : This material must be disposed of as a Hazardous Waste.

Disposal should be in accordance with local, nation or state

rule and regulations.

Disposal of

empty

**Containers** 

Break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty

containers or product.

### 14. TRANSPORT INFORMATION

Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S.(contains hexaconazole)

UN No. : 3077
Class : 9
Packing group : III
Marine : Yes

pollutant

### 15. REGULATORY INFORMATION

Hazard symbol



Dangerous for the environment (N)

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**Risk Phrase** R 23/25: toxic by inhalation and if swallowed.

R 51/53: Toxic to aquatic organisms, may cause long term adverse

effects in the aquatic environment.

**Safety** S 1/2: Keep locked up and out of reach of children.

phrase S 26: In case of contact with eyes rinse immediately with plenty of

water and seek medical advice.

**S** 35: The material and its container must be disposed-off in a safe

way.

**S36/37**: Wear suitable protective clothing and gloves

**S61:** Avoid release to the environment. Refer to special

instructions/safety data sheets.

#### **16. OTHER INFORMATION**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are resented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

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