

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Hexaconazole 5% SC
Substance: Suspension concentrate of Hexaconazole
Chemical name of IUPAC Name:
active ingredient: (RS)-2-(2,4-dichlorophenyl)-1-(1H-1,2,4-triazol-1-yl)hexan-2-ol
CA Name:
(±)- α -butyl- α -(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanol
Product Use: Agricultural fungicide
Manufacturer: Spinochem Tech Co.,Ltd
Address: No.2278,Zhaochong Rd, Shanghai,China
Emergency telephone No.: 021-64238765

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008

Acute toxicity, Dermal (Category 5)
Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 5)
Eye irritation (Category 2B)
Reproductive toxicity (Category 2)
Acute aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended

Harmful substances. Dangerous for the environment. Causes eye irritation.

Label elements

Pictogram



Signal word: Warning

Hazard statement(s)

H302 Harmful if swallowed.

H313+H333 May be harmful in contact with skin or if inhaled.

H320 Causes eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

Precautionary statement(s)

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard symbol(s)

Xn Harmful substances

Xi Irritant

N Dangerous for the environment.

Other hazards None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
Hexaconazole	79983-71-4	5%
Others	Not applicable	Up to 100%

4. FIRST AID MEASURES

General advice

Have the product container, label or Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If inhaled

Move to clear atmosphere. Get medical attention. Treat symptomatically and supportively.

In case of skin contact

Take off contaminated clothing. Rinse skin immediately with soap and plenty of water for 15 to 20 minutes. If irritation develops, get medical attention

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling and/or in section 11

Note to physician

There is no specific antidote available. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas.

Advice for firefighters

Wear protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Method and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes and skin. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. DO NOT inhale spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sun light. Avoid storage at high temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters.

Exposure limits

Not available.

Acceptable Daily Intake (ADI):

(JMPR) 0.005 mg/kg b.w. [1990]; (EPA) 0.02 mg/kg b.w. [1999].

No-observable-effect-level (NOEL):

NOAEL (2 y) for rats 0.47 mg/kg diet; for mice 4.7 mg/kg diet; for dogs (1 y) 2 mg/kg b.w./d.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protection equipment

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm.

Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Body protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow liquid, without deposition and delamination

Vapor Pressure: 0.018 mPa (25 °C, Hexaconazole).

S.g/density: Test and report

PH: 5.0-9.0

Partition coefficient: Not applicable for the end-use product, Refer to the active substance, $K_{ow} \log P = 3.9$ (20 °C) (Hexaconazole)

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

High temperature, direct sunlight, etc.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Other decomposition products - No data available.

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

There is no data available for the formulation type, so the technical information is listed for the reference.

Acute Oral	Acute oral LD50 for male rats 2189, female rats 6071 mg/kg.
Inhalation	LC50 (4 h) for rats >5.9 mg/l.
Skin and Eye	Acute percutaneous LD50 for rats >2000 mg/kg. Mild irritant to eyes; non-irritating to skin (rabbits). Moderate skin sensitiser (guinea pigs).
Skin sensitization	Moderate skin sensitiser (guinea pigs).

12. ECOLOGICAL INFORMATION

Toxicity

Eco-toxicity (ePM)

Birds Acute oral LD50 for mallard ducks >4000 mg/kg b.w.

Fish LC50 (96 h) for rainbow trout 3.4, mirror carp 5.94, bluegill sunfish 5.1, sheepshead minnows 5.4 mg/l.

Daphnia EC50 (48 h) 2.9 mg/l.

Algae EbC50 (72 h) 1.7 mg/l.

Bees Acute oral and contact LD50 (24 h) for honeybees >0.1 mg/bee.

Worms LC50 (14 d) >1000 mg/kg dry soil.

13. DISPOSAL CONSIDERATION

Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling,

break, crush or puncture and bury empty containers in a local authority landfill. If no landfill available, bury the containers below 500mm in a disposal pitspecifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of washings, contaminated materials, used absorbents and other waste materials as directed by local regulations.

14. TRANSPORT INFORMATION

UN number

ADR/RID: Not dangerous goods IMDG: 3082 IATA: 3082

UN proper shipping name

ADR/RID: -

IMDG: Environmental hazardous substance, Liquid, N.O.S

IATA: Environmental hazardous substance, Liquid, N.O.S

Transport hazard class(es)

ADR/RID: - IMDG: 9 IATA: 9

Packaging group

ADR/RID: - IMDG: III IATA: III

Environmental hazards

IMDG Marine pollutant: yes

Special precautions for user

No data available.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.