

**Epoxiconazole,
reference material****R1672-100MG**

Version 1.0

Issuing date 03/18/2019

Revision Date 03/19/2019

Print Date 08/07/2019


1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	:	Epoxiconazole, reference material
Number	:	000000004396
Recommended use of the chemical and restrictions on use	:	Laboratory chemicals, Reference Standard
Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926
For further information, please contact:	:	1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389-1414 Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887 In Japan: +(81)-345209637 (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification of the substance or mixture	:	Carcinogenicity, Category 2 Toxic to reproduction, Category 1B Long-term (chronic) aquatic hazard, Category 2
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GHS Label elements, including precautionary statements

Symbol(s)	:	
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Signal word	:	Danger
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Hazard statements : Suspected of causing cancer.
May damage fertility or the unborn child.
Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.
Use personal protective equipment as required.

Response:
IF exposed or concerned: Get medical advice/ attention.
Collect spillage.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : C₁₇H₁₃ClFN₃O

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Epoxiconazole	133855-98-8	<=100.00 %
Epoxiconazole		

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.
Move out of dangerous area.
Take off all contaminated clothing immediately.

Inhalation : In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Consult a physician.

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|--------------------|--|
| Skin contact | : After contact with skin, wash immediately with plenty of water.
If symptoms persist, call a physician. |
| Eye contact | : Protect unharmed eye.
Rinse thoroughly with plenty of water, also under the eyelids.
Call a physician immediately. |
| Ingestion | : Do not induce vomiting without medical advice.
If victim is fully conscious, give a cupful of water.
Never give anything by mouth to an unconscious person.
Call a physician immediately. |
| Notes to physician | : Treat symptomatically. |

5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Water spray
Foam
Carbon dioxide (CO ₂)
Dry powder |
| Specific hazards during firefighting | : In case of fire hazardous decomposition products may be produced such as:
carbon oxides (CO, CO ₂), nitrogen oxides (NO _x).
Hydrogen chloride gas
Hydrogen fluoride |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas. |
| Further information | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Ensure adequate ventilation.
Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Use personal protective equipment.
Avoid dust formation. |
| Environmental precautions | : Prevent further leakage or spillage if safe to do so. |

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Do not flush into surface water or sanitary sewer system.
Discharge into the environment must be avoided.
If the product contaminates rivers and lakes or drains inform
respective authorities.

Methods and materials for
containment and cleaning up : Use mechanical handling equipment.
Pick for disposal in tightly closed containers
Avoid dust formation.
Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid exposure - obtain special instructions before use.
Avoid breathing dust or spray mist.
Avoid contact with skin, eyes and clothing.

Advice on protection against
fire and explosion : Normal measures for preventive fire protection.

Storage

Conditions for safe storage,
including any
incompatibilities : Store in original container.
Keep container tightly closed in a dry and well-ventilated
place.
Keep locked up or in an area accessible only to qualified or
authorised persons.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use product only in closed system.
Perform filling operations only at stations with exhaust ventilation facilities.

Individual protection measures, such as personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory
equipment.

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Hand protection	: Impervious gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety goggles
Skin and body protection	: Wear suitable protective equipment. Lab coat Complete suit protecting against chemicals
Hygiene measures	: Remove and wash contaminated clothing before re-use. Recommended preventive skin protection Wash hands before breaks and at the end of workday. Usual hygienic precautions must be taken when working with dangerous cancer causing substances. Keep working clothes separately. Separate rooms are required for washing, showering and changing clothes.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid exposure - obtain special instructions before use. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Colour	: colourless
Odour	: slight, original odour
Melting point/range	: 136.2 - 137 °C
Boiling point/boiling range	: Note: no data available
Flash point	: Note: Not applicable

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Lower explosion limit	: Note: no data available
Upper explosion limit	: Note: no data available
Density	: 1.384 g/cm ³
Water solubility	: Note: practically insoluble
Partition coefficient: n-octanol/water	: log Pow: 3.33
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: no data available
Viscosity, kinematic	: Note: no data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 329.76 g/mol

10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Avoid dust formation.
Incompatible materials to avoid	: Strong oxidizing agents
Hazardous decomposition products	: carbon oxides (CO, CO ₂) and nitrogen oxides (NO _x). Hydrogen chloride gas Hydrogen fluoride

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat
Acute inhalation toxicity	: LC50: > 5.3 mg/l Exposure time: 4 h Species: Rat
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat
Skin irritation	: Species: Rabbit Classification: non-irritant
Eye irritation	: Species: rabbit eye Classification: non-irritant
Sensitisation Epoxiconazole	: Classification: non-sensitizing
Genotoxicity in vitro	: Note: The GHS classification specified by the authority
Aspiration toxicity	: no data available

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish	: LC50: 3.14 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
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Toxicity to daphnia and other
aquatic invertebrates : LC50: 8.69 mg/l
Exposure time: 48 h
Species: Daphnia (water flea)

Toxicity to algae : EbC50: 1.19 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)

Persistence and degradability

Biodegradability : Note: no data available

Bioaccumulative potential

Bioaccumulation : Note: no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

UN/ID No. : UN 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.

(EPOXICONAZOLE)

Class : 9
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IATA

UN/ID No. : UN 3077

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Description of the goods : Environmentally hazardous substance, solid, n.o.s.
(Epoxiconazole)

Class : 9

Packing group : III

Labels : 9

Packing instruction (cargo aircraft) : 956

Packing instruction (passenger aircraft) : 956

Packing instruction (passenger aircraft) : Y956

IMDG

UN/ID No. : UN 3077

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(EPOXICONAZOLE)

Class : 9

Packing group : III

Labels : 9

EmS Number 1 : F-A

EmS Number 2 : S-F

Marine pollutant : yes

15. REGULATORY INFORMATION**National regulatory information**

Vessel Safety Law : Miscellaneous dangerous substances and articles (Article 2 and
JP VSL 3 of rules on shipping and storage of dangerous goods and its
Attached Table 1)

Aviation Law : Miscellaneous dangerous substances and articles (Article 194
JP AVL of The Enforcement Rules of Aviation Law and its Attached
Table 1)

Fire Service Law : Not relevant

Poisonous and Deleterious : Not relevant

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Substances Control Law

Other international regulations**Notification status**US. Toxic Substances
Control Act : Not On TSCA InventoryAustralia. Industrial Chemical
(Notification and
Assessment) Act : Not in compliance with the inventoryCanada. Canadian
Environmental Protection Act
(CEPA). Domestic
Substances List (DSL) : Not in compliance with the inventory

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Existing Chemicals
Inventory (KECI) : Not in compliance with the inventoryPhilippines. The Toxic
Substances and Hazardous
and Nuclear Waste Control
Act : On the inventory, or in compliance with the inventoryChina. Inventory of Existing
Chemical Substances : On the inventory, or in compliance with the inventoryNew Zealand. Inventory of
Chemicals (NZIoC), as
published by ERMA New
Zealand : On the inventory, or in compliance with the inventory**16. OTHER INFORMATION****Further information**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group