

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

1/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** FOLICUR 250 EW  
**Product code (UVP)** 04407040, 81711690  
**SDS Number** 102000007162

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Fungicide  
**Restrictions on use** See product label for restrictions.

#### Information on supplier

**Supplier** Bayer CropScience Inc  
#200, 160 Quarry Park Blvd, SE  
Calgary, Alberta T2C 3G3  
Canada  
**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-888-283-6847

### SECTION 2: HAZARDS IDENTIFICATION

#### Classified in accordance with Part 2 of the Hazardous Products Regulations

Serious eye damage: Category 1  
Reproductive toxicity: Category 2  
Specific target organ toxicity - single exposure: Category 3  
Acute toxicity(Oral, Inhalation): Category 4

#### Labelling in accordance with Part 3 of the Hazardous Products Regulations



**Signal word:** Danger

#### Hazard statements

Causes serious eye damage.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.  
Harmful if swallowed.

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

2/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

Harmful if inhaled.

### Precautionary statements

Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing mist/ spray.  
Use only outdoors or in a well-ventilated area.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor/ physician.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Tebuconazole	107534-96-3	25.8
N,N-Dimethyl decanamide	14433-76-2	59.1

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## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

3/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

**Ingestion** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

### Most important symptoms and effects, both acute and delayed

**Symptoms** No symptoms known or expected.

### Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

**Suitable** Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Sand

**Unsuitable** None known.

**Special hazards arising from the substance or mixture** In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NO<sub>x</sub>)

### Advice for firefighters

**Special protective equipment for firefighters** In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** > 172 °C

**Auto-ignition temperature** 345 °C / 653 °F

**Lower explosion limit** No data available

**Upper explosion limit** No data available

**Explosivity** Not explosive  
92/69/EEC, A.14 / OECD 113

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

4/11

Revision Date: 03/26/2018  
Print Date: 04/26/2018

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

#### Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

#### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Tebuconazole	107534-96-3	0.2 mg/m <sup>3</sup> (SK-ABS)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

#### Exposure controls

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

5/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

<b>Respiratory protection</b>	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Eye protection</b>	Goggles Face-shield
<b>Skin and body protection</b>	Coveralls over long sleeved shirt and long pants. Shoes plus socks
<b>General protective measures</b>	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	light yellow
<b>Physical State</b>	Liquid clear to slightly turbid
<b>Odor</b>	aromatic
<b>Odour Threshold</b>	No data available
<b>pH</b>	5.0 - 8.0 at 1 % (23 °C) (deionized water)
<b>Vapor Pressure</b>	No data available
<b>Vapor Density (Air = 1)</b>	No data available
<b>Density</b>	ca. 0.97 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	No data available
<b>Boiling Point</b>	No data available
<b>Melting / Freezing Point</b>	No data available
<b>Water solubility</b>	emulsifiable
<b>Minimum Ignition Energy</b>	Not applicable
<b>Decomposition temperature</b>	350 °C , Heating rate: 3 K/min Stable under normal conditions. Exothermic decomposition.
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity</b>	No data available
<b>Flash point</b>	> 172 °C

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

6/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

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<b>Auto-ignition temperature</b>	345 °C / 653 °F
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Explosivity</b>	Not explosive 92/69/EEC, A.14 / OECD 113
<b>Other information</b>	Further safety related physical-chemical data are not known.

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

<b>Thermal decomposition</b>	350 °C, Heating rate: 3 K/min Stable under normal conditions. Exothermic decomposition.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Eye contact, Ingestion, Inhalation, Skin Absorption
<b>Immediate Effects</b>	
<b>Eye</b>	Corrosive to eyes.
<b>Ingestion</b>	Fatal if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (female Rat) > 200 - < 2,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (Rat) ca. 5 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol.
<b>Acute dermal toxicity</b>	LD50 (Rat) > 4,000 mg/kg
<b>Skin irritation</b>	No skin irritation (Rabbit)
<b>Eye irritation</b>	Risk of serious damage to eyes. (Rabbit)

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

7/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

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**Sensitisation** Non-sensitizing. (Guinea pig)  
OECD Test Guideline 406, Buehler test  
Non-sensitizing. (Guinea pig)  
OECD Test Guideline 406, Magnusson & Kligman test

### Assessment STOT Specific target organ toxicity – repeated exposure

Tebuconazole did not cause specific target organ toxicity in experimental animal studies.  
N,N-Dimethyldecanamide did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Tebuconazole was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
N,N-Dimethyldecanamide was not genotoxic in a battery of in vitro tests.

### Assessment carcinogenicity

Tebuconazole caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism of tumour formation is not considered to be relevant to man.  
N,N-Dimethyldecanamide is not considered carcinogenic.

### ACGIH

None.

### NTP

None.

### IARC

None.

### OSHA

None.

### Assessment toxicity to reproduction

Tebuconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Tebuconazole is related to parental toxicity.  
N,N-Dimethyldecanamide is not considered a reproductive toxicant at non-maternally toxic dose levels.

### Assessment developmental toxicity

Tebuconazole caused developmental toxicity only at dose levels toxic to the dams. Tebuconazole caused an increased incidence of post implantation losses, an increased incidence of non-specific malformations.  
N,N-Dimethyldecanamide did not cause developmental toxicity in rats and rabbits.

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

8/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 9.28 mg/l Exposure time: 96 h
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 7.3 mg/l Exposure time: 48 h
<b>Chronic toxicity to aquatic invertebrates</b>	NOEC (Daphnia (water flea)): 0.010 mg/l Exposure time: 21 d The value mentioned relates to the active ingredient tebuconazole.
<b>Toxicity to aquatic plants</b>	EC50 (Raphidocelis subcapitata (freshwater green alga)) 3.51 mg/l Growth rate; Exposure time: 72 h  (Lemna gibba (gibbous duckweed)) 0.237 mg/l Growth rate; Exposure time: 7 d The value mentioned relates to the active ingredient tebuconazole.
<b>Biodegradability</b>	Tebuconazole: Not rapidly biodegradable N,N-Dimethyldecanamide: rapidly biodegradable
<b>Koc</b>	Tebuconazole: Koc: 769
<b>Bioaccumulation</b>	Tebuconazole: Bioconcentration factor (BCF) 35 - 59 Does not bioaccumulate. N,N-Dimethyldecanamide: Does not bioaccumulate.
<b>Mobility in soil</b>	Tebuconazole: Slightly mobile in soils N,N-Dimethyldecanamide: Slightly mobile in soils
<b>Additional ecological information</b>	No other effects to be mentioned.
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Product** Dispose in accordance with all local, state/provincial and federal regulations.  
Follow advice on product label and/or leaflet.



# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
10200007162

9/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

**Contaminated packaging** Do not re-use empty containers.  
Triple rinse containers.  
Add washings to sprayer at time of filling.  
Consult state and local regulations regarding the proper disposal of container.  
Follow advice on product label and/or leaflet.

### SECTION 14: TRANSPORT INFORMATION

#### TDG

UN number **3082**  
Labels **9**  
Packaging group **III**  
Marine pollutant **Marine pollutant**  
Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE)**

#### 49CFR

Not dangerous goods / not hazardous material

#### IMDG

UN number **3082**  
Class **9**  
Packaging group **III**  
Marine pollutant **YES**  
Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE SOLUTION)**

#### IATA

UN number **3082**  
Class **9**  
Packaging group **III**  
Environm. Hazardous Mark **YES**  
Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE SOLUTION )**

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

**Further Information** Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1.  
This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

10/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

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### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

##### TSCA list

N,N-Dimethyl decanamide 14433-76-2  
Oxirane, 2-methyl-, polymer with oxirane, 70880-56-7  
mono[2,4,6-tris(1-phenylethyl)phenyl]  
ether

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**  
Not applicable.

##### SARA Title III - Section 302 - Notification and Information

None.

##### SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

##### US States Regulatory Reporting

##### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

##### US State Right-To-Know Ingredients

None.

#### Canadian Regulations

##### Canadian Domestic Substance List

Oxirane, 2-methyl-, polymer with oxirane, 70880-56-7  
mono[2,4,6-tris(1-phenylethyl)phenyl]  
ether

#### Environmental

##### CERCLA

None.

##### Clean Water Section 307 Priority Pollutants

None.

##### Safe Drinking Water Act Maximum Contaminant Levels

None.

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### SECTION 16: OTHER INFORMATION

#### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act

# SAFETY DATA SHEET



## FOLICUR 250 EW

Version 2.0 / CDN  
102000007162

11/11  
Revision Date: 03/26/2018  
Print Date: 04/26/2018

EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### NFPA 704 (National Fire Protection Association):

Health - 2      Flammability - 1      Instability - 1      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2      Flammability - 1      Physical Hazard - 1      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current Canadian WHMIS standard (WHMIS 2015).

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

**Revision Date:** 03/26/2018

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