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

Product identifier
Trade name                      FOLICUR® 432 F FOLIAR FUNGICIDE
Product code (UVP)               04399331
SDS Number                      102000012273
PCP Registration No.             25940
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
Reproductive toxicity: Category 2

Labelling in accordance with Part 3 of the Hazardous Products Regulations

Signal word: Warning

Hazard statements
Suspected of damaging fertility or the unborn child.

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.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tebuconazole</td>
<td>107534-96-3</td>
<td>38.7</td>
</tr>
<tr>
<td>sodium alkylnaphthalene sulphonate, formaldehyde condensate</td>
<td>1.5</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation
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.

Skin contact
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.

Eye contact
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.

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

Most important symptoms and effects, both acute and delayed
Symptoms
To date no symptoms are known.

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 Carbon dioxide (CO2), Dry chemical, Foam, Water

Unsuitable None known.

Special hazards arising from the substance or mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for firefighters

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information

Keep out of smoke. Fight fire from upwind position. Evacuate personnel to safe areas. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Flash point > 93.4 °C

Auto-ignition temperature 405 °C / 761 °F

Lower explosion limit No data available

Upper explosion limit No data available

Explosivity Not applicable

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. Remove all sources of ignition.

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. Contaminated soil may have to be removed and disposed.

Additional advice

Use personal protective equipment. If material is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.
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
Handle and open container in a manner as to prevent spillage. 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 Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. 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 a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tebuconazole</td>
<td>107534-96-3</td>
<td>0.2 mg/m3 (SK-ABS)</td>
<td></td>
<td>OES BCS*</td>
</tr>
<tr>
<td>Glycerine (Mist.)</td>
<td>56-81-5</td>
<td>10 mg/m3 (TWA)</td>
<td>07 2009</td>
<td>CAD AB OEL</td>
</tr>
<tr>
<td>Glycerine (Mist.)</td>
<td>56-81-5</td>
<td>10 mg/m3 (TWA)</td>
<td>09 2011</td>
<td>CAD BC OEL</td>
</tr>
<tr>
<td>Glycerine (Respirable mist.)</td>
<td>56-81-5</td>
<td>3 mg/m3 (TWA)</td>
<td>09 2011</td>
<td>CAD BC OEL</td>
</tr>
<tr>
<td>Glycerine (Mist.)</td>
<td>56-81-5</td>
<td>10 mg/m3 (TWA)</td>
<td>11 2010</td>
<td>CAD ON OEL</td>
</tr>
<tr>
<td>Glycerine (Mist.)</td>
<td>56-81-5</td>
<td>10 mg/m3 (8 HR ACL)</td>
<td>05 2009</td>
<td>CAD SK OEL</td>
</tr>
<tr>
<td>Glycerine</td>
<td>56-81-5</td>
<td>20 mg/m3</td>
<td>05 2009</td>
<td>CAD SK</td>
</tr>
</tbody>
</table>
Exposure controls

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.

Respiratory protection
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.

Hand protection
Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

Eye protection
Safety glasses with side-shields

Skin and body protection
Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures
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

Appearance
white to light beige

Physical State
suspension

Odor
chalk-like

Odour Threshold
No data available

pH
c. 7.5 at 100 % (23 ºC)

Vapor Pressure
No data available

Vapor Density (Air = 1)
No data available

Density
1.12 g/cm³ at 20 ºC

Evaporation rate
No data available

Boiling Point
No data available

Melting / Freezing Point
0 ºC / 32 ºF

Water solubility
miscible

Minimum Ignition Energy
Not applicable
Decomposition temperature  Not applicable
Partition coefficient: n-octanol/water  No data available
Viscosity  800 - 1,200 mPa.s at 25 °C
Flash point  > 93.4 °C
Auto-ignition temperature  405 °C / 761 °F
Lower explosion limit  No data available
Upper explosion limit  No data available
Explosivity  Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition  Not applicable
Chemical stability  Stable under normal conditions.
Possibility of hazardous reactions  No dangerous reaction known under conditions of normal use.
Conditions to avoid  Extremes of temperature and direct sunlight.
              freezing
Incompatible materials  No data available
Hazardous decomposition products  Thermal decomposition can lead to release of:
              Nitrogen oxides (NOx)
              Carbon monoxide
              Hydrogen cyanide (hydrocyanic acid)
              Hydrogen chloride (HCl)

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes  Eye contact, Ingestion, Inhalation, Skin Absorption
Immediate Effects
Eye  May cause mild irritation to eyes.
Skin  May cause slight irritation. Harmful if absorbed through skin.
Ingestion  Harmful if swallowed.
Inhalation  Harmful if inhaled.
Information on toxicological effects
<table>
<thead>
<tr>
<th>Toxicity Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute oral toxicity</strong></td>
<td>LD50 (male Rat) 3,776 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 (female Rat) 3,710 mg/kg</td>
</tr>
<tr>
<td><strong>Acute inhalation toxicity</strong></td>
<td>LC50 (male/female combined Rat) &gt; 2.5 mg/l</td>
</tr>
<tr>
<td></td>
<td>Exposure time: 4 h</td>
</tr>
<tr>
<td></td>
<td>Determined in the form of liquid aerosol.</td>
</tr>
<tr>
<td></td>
<td>Highest attainable concentration.</td>
</tr>
<tr>
<td></td>
<td>No deaths</td>
</tr>
<tr>
<td><strong>Acute dermal toxicity</strong></td>
<td>LD50 (male/female combined Rat) &gt; 2,011 mg/kg</td>
</tr>
<tr>
<td><strong>Skin irritation</strong></td>
<td>slight irritation (Rabbit)</td>
</tr>
<tr>
<td><strong>Eye irritation</strong></td>
<td>Minimally irritating. (Rabbit)</td>
</tr>
<tr>
<td><strong>Sensitisation</strong></td>
<td>Non-sensitizing. (Guinea pig)</td>
</tr>
</tbody>
</table>

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

Tebuconazole 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.

**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.

**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.

**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.

**Further information**

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).
SECTION 12: ECOLOGICAL INFORMATION

Toxicity to aquatic invertebrates
EC50 (Daphnia magna (Water flea)) 31.0 mg/l
Exposure time: 48 h

Toxicity to aquatic plants
EC50 (Raphidocelis subcapitata (freshwater green alga)) 15.2 mg/l
Growth rate; Exposure time: 96 h

Biodegradability
Tebuconazole:
Not rapidly biodegradable

Koc
Tebuconazole: Koc: 769

Bioaccumulation
Tebuconazole: Bioconcentration factor (BCF) 35 - 59
Does not bioaccumulate.

Mobility in soil
Tebuconazole: Slightly mobile in soils

Environmental precautions
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.
Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Product
Do not contaminate water, food, or feed by disposal.
Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

Contaminated packaging
Triple rinse containers.
Puncture container to avoid re-use.
Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.
If burned, stay out of smoke.
Follow advice on product label and/or leaflet.

SECTION 14: TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON
SECTION 15: REGULATORY INFORMATION

PCP Registration No. 25940
US Federal Regulations
TSCA list
None.
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
None.
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
None.

Environmental
CERCLA
None.
Clean Water Section 307 Priority Pollutants
None.
Safe Drinking Water Act Maximum Contaminant Levels
Tebuconazole 107534-96-3

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
EINECS European inventory of existing commercial substances
ELINGS European list of notified chemical substances
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
SAFETY DATA SHEET

FOLICUR® 432 F FOLIAR FUNGICIDE

Version 4.0 / CDN
10200012273

Revision Date: 02/02/2017
Print Date: 09/04/2018

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 - 1
- Flammability - 1
- Instability - 0
- Others - none

- Health - 1
- Flammability - 1
- Physical Hazard - 0
- 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: 02/02/2017

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