



We create chemistry

## Safety Data Sheet **FORUM FUNGICIDE**

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Version: 1.0

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(30288711/SDS\_CPA\_CA/EN)

### 1. Identification

#### Product identifier used on the label

### **FORUM FUNGICIDE**

#### Recommended use of the chemical and restriction on use

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Contact address:  
BASF Canada Inc.  
100 Milverton Drive  
Mississauga, ON L5R 4H1  
CANADA  
Telephone: +1 289 360-1300

#### Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

Molecular formula: C(21) H(22) Cl N O(4)  
PCP # 32026  
Synonyms: dimethomorph

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### 2. Hazards Identification

#### According to Controlled Products Regulations (CPR) (SOR/88-66)

#### Emergency overview

WARNING:  
POISON.  
Contains 1,2-benzisothiazolin-3-one as a preservative.  
KEEP OUT OF REACH OF CHILDREN.  
Wash thoroughly after handling.

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### 3. Composition / Information on Ingredients

**According to Hazardous Products Regulations (HPR) (SOR/2015-17)**

| <b>CAS Number</b> | <b>Weight %</b> | <b>Chemical name</b> |
|-------------------|-----------------|----------------------|
| 110488-70-5       | 43.5 %          | dimethomorph         |

### 4. First-Aid Measures

#### Description of first aid measures

##### **General advice:**

Remove contaminated clothing.

##### **If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention.

##### **If on skin:**

Wash thoroughly with soap and water.

##### **If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

##### **If swallowed:**

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

##### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, carbon dioxide, foam, dry powder

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen dioxide, Hydrogen chloride, nitrogen oxides, organochloric compounds

The substances/groups of substances mentioned can be released in case of fire.

#### Advice for fire-fighters

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Protective equipment for fire-fighting:  
Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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## 7. Handling and Storage

### Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## 8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

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### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### **General safety and hygiene measures:**

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

|                        |  |
|------------------------|--|
| Form:                  | suspension   |
| Odour:                 | suspension   |
| Odour threshold:       | characteristic   |
| Colour:                | Not determined due to potential health hazard by inhalation.   |
| pH value:              | white  |
|                        | approx. 7 - 9  |
|                        | (approx. 20 °C)  |
| Freezing point:        | approx. 0 °C   |
| Boiling point:         | Information applies to the solvent.  |
|                        | approx. 100 °C   |
| Flash point:           | Information applies to the solvent.  |
| Flammability:          | Non-flammable.   |
| Lower explosion limit: | not highly flammable   |
|                        | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Upper explosion limit: | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Autoignition:          | not determined   |
| Density:               | approx. 1.15 g/cm <sup>3</sup>   |
|                        | ( 20 °C )  |

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### *Information on: Dimethomorph*

Partitioning coefficient n-  
octanol/water (log Pow): 2.63 - 2.73  
( 20 °C)

Thermal decomposition: not determined

Viscosity, dynamic: 157 mPa.s  
( 20 °C)

Solubility in water: dispersible

Evaporation rate: not applicable

Other Information: If necessary, information on other physical and chemical  
parameters is indicated in this section.

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## 10. Stability and Reactivity

### **Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

### **Possibility of hazardous reactions**

No hazardous reactions if stored and handled as prescribed/indicated.

### **Conditions to avoid**

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

### **Incompatible materials**

strong bases, strong acids, strong oxidizing agents

### **Hazardous decomposition products**

#### Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

#### Thermal decomposition:

not determined

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## 11. Toxicological information

### **Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### **Acute Toxicity/Effects**

#### Acute toxicity

Assessment of acute toxicity: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Of moderate toxicity after single ingestion.

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### Oral

Type of value: LD50

Species: rat

Value: > 500 - < 2,000 mg/kg (OECD Guideline 423)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Inhalation

Type of value: LC50

Species: rat

Value: > 5.0 mg/l (OECD Guideline 403)

Exposure time: 4 h

An aerosol was tested.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 4,000 mg/kg (OECD Guideline 402)

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Irritation / corrosion

Assessment of irritating effects: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Not irritating to the skin. Not irritating to the eyes.

### Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Sensitization

Assessment of sensitization: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. There is no evidence of a skin-sensitizing potential.

modified Buehler test

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

Method: OECD Guideline 406

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

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Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### Other Information

Misuse can be harmful to health.

## Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Toxicity to fish

*Information on: dimethomorph*

*LC50 (96 h) 6.8 mg/l, Oncorhynchus mykiss (EPA 72-1, static)*

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#### Aquatic invertebrates

*Information on: dimethomorph*

*EC50 (48 h) 49 mg/l, Daphnia magna*

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#### Aquatic plants

*Information on: dimethomorph*

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*EC50 (96 h) > 20 mg/l, Pseudokirchneriella subcapitata*

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### Persistence and degradability

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

The product has not been tested. The statement has been derived from the properties of the individual components.

### Bioaccumulative potential

#### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Assessment bioaccumulation potential

*Information on: Dimethomorph*

*Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.*

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### Mobility in soil

#### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Dimethomorph*

*The substance will not evaporate into the atmosphere from the water surface.*

*Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

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### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## 13. Disposal considerations

#### **Waste disposal of substance:**

Must be sent to a suitable incineration plant, observing local regulations.

#### **Container disposal:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Land transport

TDG

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Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

|                       |   |
|-----------------------|---|
| Hazard class:         | 9   |
| Packing group:        | III   |
| ID number:            | UN 3082   |
| Hazard label:         | 9, EHSM   |
| Marine pollutant:     | YES   |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DIMETHOMORPH 44%) |

### Air transport

IATA/ICAO

|                       |   |
|-----------------------|---|
| Hazard class:         | 9   |
| Packing group:        | III   |
| ID number:            | UN 3082   |
| Hazard label:         | 9, EHSM   |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DIMETHOMORPH 44%) |

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## 15. Regulatory Information

### Federal Regulations

#### **Registration status:**

Chemical                    DSL, CA            released / listed

Crop Protection            DSL, CA released / listed

### According to Controlled Products Regulations (CPR) (SOR/88-66)

WHMIS does not apply to this product.

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## 16. Other Information

#### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2015/12/08

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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