

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 1/12  
(30644547/SDS\_CPA\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Stamina Fungicide Seed Treatment

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

Recommended use\*: fungicide

\* 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 Canada Inc.  
100 Milverton Drive  
Mississauga, ON L5R 4H1, CANADA

Contact address:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932  
USA  
Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Substance number: 672813  
EPA Registration number: 7969-266  
Synonyms: pyraclostrobin

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic

#### Label elements

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 2/12  
(30644547/SDS\_CPA\_US/EN)

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H315 Causes skin irritation.  
H302 Harmful if swallowed.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P391 Collect spillage.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

### Hazards not otherwise classified

Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: 1,2-benzisothiazol-3(2H)-one

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## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
175013-18-0	18.42 %	Pyraclostrobin
77-78-1	0.1 - 1.0%	dimethyl sulphate
56-81-5	11.0 %	glycerol

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## 4. First-Aid Measures

### Description of first aid measures

**General advice:**

Remove contaminated clothing.

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 3/12  
(30644547/SDS\_CPA\_US/EN)

---

### **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, consult an eye specialist.

### **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.

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## **5. Fire-Fighting Measures**

### **Extinguishing media**

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

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

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds, sulfur oxides  
The substances/groups of substances mentioned can be released in case of fire.

### **Advice for fire-fighters**

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

### **Further information:**

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. 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**

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

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 4/12  
(30644547/SDS\_CPA\_US/EN)

### 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

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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## 7. Handling and Storage

### Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Protect contents from the effects of light. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

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 below: 0 °C

The product crystallizes below the limit temperature.

Protect from temperatures above: 35 °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.

### Components with occupational exposure limits

glycerol	OSHA PEL	PEL 15 mg/m <sup>3</sup> Total dust ; PEL 5 mg/m <sup>3</sup> Respirable fraction ; TWA value 10 mg/m <sup>3</sup> Total dust ; TWA value 5 mg/m <sup>3</sup> Respirable fraction ;
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# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17

Version: 2.0

Page: 5/12

(30644547/SDS\_CPA\_US/EN)

dimethyl sulphate	OSHA PEL	Skin Designation ; The substance can be absorbed through the skin. PEL 1 ppm 5 mg/m <sup>3</sup> ; SKIN_FINAL ; The substance can be absorbed through the skin. TWA value 0.1 ppm 0.5 mg/m <sup>3</sup> ;
	ACGIH TLV	Skin Designation ; The substance can be absorbed through the skin. TWA value 0.1 ppm ;

### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

#### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) particulate respirator.

#### 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. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Remove contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form:	suspension
Odour:	fruity
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	off-white
pH value:	approx. 6 - 8 ( 1 %(m), approx. 21 °C) (as suspension)
Freezing point:	approx. 0 °C (approx. 1,013 hPa) Information applies to the solvent.

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 6/12  
(30644547/SDS\_CPA\_US/EN)

Boiling point:	approx. 100 °C (approx. 1,013 hPa) Information applies to the solvent.	
Flash point:	> 100 °C No flash point - Measurement made up to the boiling point.	(Directive 92/69/EEC, A.9)
Flammability:	not applicable	
Lower 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.	
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:	425 °C	(Directive 92/69/EEC, A.15)
Vapour pressure:	approx. 23.3 hPa (approx. 20 °C) Information applies to the solvent.	
Density:	approx. 1.09 g/cm <sup>3</sup> ( 20 °C)	
Vapour density:	not applicable	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	approx. 58 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.	

## 10. Stability and Reactivity

### Reactivity

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

Oxidizing properties:

not fire-propagating (Directive 2004/73/EC, A.21)

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
	Method:	Flammability (contact with water)

### 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

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 7/12  
(30644547/SDS\_CPA\_US/EN)

See MSDS section 7 - Handling and storage.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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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. Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

#### Oral

Type of value: LD50

Species: rat (female)

Value: approx. 2,000 mg/kg (OECD Guideline 423)

#### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 5.3 mg/l (OECD Guideline 403)

Exposure time: 4 h

#### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (OECD Guideline 402)

No mortality was observed.

#### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

#### Irritation / corrosion

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17

Version: 2.0

Page: 8/12

(30644547/SDS\_CPA\_US/EN)

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

### Skin

Species: rabbit

Result: Irritant.

Method: OECD Guideline 404

### Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: 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

*Information on: 1,2-benzisothiazol-3(2H)-one*

*Guinea pig maximization test*

*Species: guinea pig*

*Result: Caused skin sensitization in animal studies.*

*Method: OECD Guideline 406*

*Literature data.*

### Aspiration Hazard

No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Pyraclostrobin*

*Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.*

*Information on: glycerol*

*Assessment of repeated dose toxicity: No adverse effects were observed after repeated oral exposure in animal studies. Repeated inhalation exposure to large quantities has shown upper respiratory tract irritation in experimental 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



# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17

Version: 2.0

Page: 9/12

(30644547/SDS\_CPA\_US/EN)

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:

Very toxic to aquatic life with long lasting effects.

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

#### Toxicity to fish

LC50 (96 h) 0.0398 mg/l, *Oncorhynchus mykiss* (static)

#### Aquatic invertebrates

EC50 (48 h) 0.063 mg/l, *Daphnia magna* (static)

#### Aquatic plants

EC50 (72 h) > 10 mg/l (growth rate), *Pseudokirchneriella subcapitata* (static)

### Persistence and degradability

#### Assessment biodegradation and elimination (H2O)

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

#### Assessment biodegradation and elimination (H2O)

*Information on: pyraclostrobin*

*Not readily biodegradable (by OECD criteria).*

### Bioaccumulative potential

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 10/12  
(30644547/SDS\_CPA\_US/EN)

### 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: pyraclostrobin*

*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: pyraclostrobin*

*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:**

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **Container disposal:**

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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## 14. Transport Information

### **Land transport**

USDOT

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

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 11/12  
(30644547/SDS\_CPA\_US/EN)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (contains PYRACLOSTROBIN)

### 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 PYRACLOSTROBIN)

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

**EPCRA 311/312 (Hazard categories):** Chronic;

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	56-81-5	glycerol
	77-78-1	dimethyl sulphate
MA	56-81-5	glycerol
	77-78-1	dimethyl sulphate
NJ	77-78-1	dimethyl sulphate
	56-81-5	glycerol

#### **CA Prop. 65:**

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

### **Labeling requirements under FIFRA**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

#### CAUTION:

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

Avoid contact with the skin, eyes and clothing.

# Safety Data Sheet

## Stamina Fungicide Seed Treatment

Revision date : 2017/04/17  
Version: 2.0

Page: 12/12  
(30644547/SDS\_CPA\_US/EN)

---

### 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2017/04/17

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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END OF DATA SHEET