



## Safety Data Sheet

### INTERFACE® STRESSGARD™

SDS Number: 102000021104

SDS Version 1.0

Revision Date: 08/14/2015

Print Date: 08/14/2015

## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product name</b>	INTERFACE® STRESSGARD™
<b>SDS Number</b>	102000021104
<b>Product code (UVP)</b>	79653646, 81777721
<b>Product Use</b>	Fungicide

Bayer CropScience Inc  
 #200, 160 Quarry Park Blvd, SE  
 Calgary, Alberta T2C 3G3  
 Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-888-283-6847

## SECTION 2. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution! Moderate eye irritation. Harmful if swallowed. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

**Physical State** Liquid

**Odor** musty

**Appearance** green

**Exposure routes** Eye contact, Ingestion, Skin contact, Inhalation

**Immediate Effects**

**Eye** Moderate eye irritation.

**Skin** May cause slight irritation.

**Ingestion** Harmful if swallowed.

**Inhalation** May cause irritation.

**Chronic or Delayed Long-Term**

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

**Potential Environmental Effect**

Toxic to fish and aquatic invertebrates.



## Safety Data Sheet

INTERFACE® STRESSGARD™

SDS Number: 102000021104  
SDS Version 1.0

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Iprodione	36734-19-7	23.1
Trifloxystrobin	141517-21-7	1.44
1,2-Propanediol	57-55-6	5.0

### SECTION 4. FIRST AID MEASURES

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</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.
<b>Skin</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>Ingestion</b>	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.
<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>Notes to physician</b>	
<b>Signs and Symptoms</b>	To date no symptoms are known.
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	No flash point - Determination conducted up to the boiling point.
<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available



## Safety Data Sheet

### INTERFACE® STRESSGARD™

SDS Number: 102000021104  
SDS Version 1.0

<b>Fire and Explosion Hazards</b>	Dangerous gases are evolved in the event of a fire.
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	High volume water jet
<b>Fire Fighting Instructions</b>	<p>Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<b>Methods for cleaning up</b>	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.
<b>Additional advice</b>	Do not allow to enter soil, waterways or waste water canal.

## SECTION 7. HANDLING AND STORAGE

<b>Handling procedures</b>	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.
<b>Storing Procedures</b>	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.
<b>Work/Hygienic Procedures</b>	<p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.</p> <p>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.</p>



## Safety Data Sheet

**INTERFACE® STRESSGARD™**

SDS Number: 102000021104  
SDS Version 1.0

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General Protection</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.
<b>Eye/Face Protection</b>	Tightly fitting safety goggles
<b>Hand protection</b>	Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<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.

#### Exposure Limits

Iprodione	36734-19-7	OES BCS*	TWA	1.7 mg/m3
Trifloxystrobin	141517-21-7	OES BCS*	TWA	2.7 mg/m3
1,2-Propanediol	57-55-6	CAD ON OEL	TWAEV	10 mg/m3
		CAD ON OEL	TWAEV	50 ppm

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	green
<b>Physical State</b>	Liquid
<b>Odor</b>	musty
<b>pH</b>	4.0 - 7.0 (100 %) at 23 °C
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	1.11 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available



## Safety Data Sheet

### INTERFACE® STRESSGARD™

SDS Number: 102000021104  
SDS Version 1.0

<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Viscosity</b>	550 - 1,000 cps at 25 °C
<b>Other information</b>	Further safety related physical-chemical data are not known.

## SECTION 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatibility</b>	no data available
<b>Hazardous Decomposition Products</b>	No decomposition products expected under normal conditions of use.
<b>Hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Chemical Stability</b>	Stable under normal conditions.

## SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredients, iprodione and trifloxystrobin.

<b>Acute oral toxicity</b>	female rat: LD50: > 5,000 mg/kg
<b>Acute dermal toxicity</b>	male/female combined rat: LD50: > 5,000 mg/kg



**Safety Data Sheet**

SDS Number: 102000021104  
SDS Version 1.0

**INTERFACE® STRESSGARD™**

**Acute inhalation toxicity** male/female combined rat: LC50: > 2.56 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.

male/female combined rat: LC50: > 10.24 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.

**Skin irritation** rabbit: Slight irritation

**Eye irritation** rabbit: Mild eye irritation.

**Sensitisation** guinea pig: Non-sensitizing.

**Chronic toxicity** Iprodione caused specific target organ toxicity in experimental animal studies in rats in the following organ(s): adrenal gland.

Trifloxystrobin did not cause specific target organ toxicity in experimental animal studies.

**Assessment carcinogenicity**

Iprodione caused at high dose levels an increased incidence of tumours in the following organ(s): liver, testes. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

Trifloxystrobin was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Reproductive toxicity** Iprodione did not cause reproductive toxicity in a two-generation study in rats.

Trifloxystrobin 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 Trifloxystrobin is related to parental toxicity.

**Developmental Toxicity** Iprodione caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Iprodione are related to maternal toxicity.

Trifloxystrobin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Trifloxystrobin are related to maternal toxicity.



## Safety Data Sheet

### INTERFACE® STRESSGARD™

SDS Number: 102000021104  
SDS Version 1.0

**Mutagenicity** Iprodione was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Trifloxystrobin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

## SECTION 12. ECOLOGICAL INFORMATION

**Toxicity to fish** Oncorhynchus mykiss (rainbow trout)  
LC50: 1.47 mg/l  
Exposure time: 96 h

**Toxicity to aquatic plants** Raphidocelis subcapitata (freshwater green alga)  
Growth rate  
EC50: 5.32 mg/l  
Exposure time: 72 h

**Acute Toxicity to Aquatic Invertebrates** Daphnia magna (Water flea)  
EC50: 0.6 mg/l  
Exposure time: 48 h

**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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

**Ecological Information** No other effects to be mentioned.

## SECTION 13. DISPOSAL CONSIDERATIONS

**General Disposal Guidance** Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label.

**Container Disposal** Do not re-use empty containers. Follow advice on product label and/or leaflet. Triple rinse containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.

## SECTION 14. TRANSPORT INFORMATION

**TDG** Not dangerous goods / not hazardous material



## Safety Data Sheet

### INTERFACE® STRESSGARD™

SDS Number: 102000021104  
SDS Version 1.0

**49CFR** Not dangerous goods / not hazardous material

#### IMDG

UN number **3082**  
Class 9  
Packaging group III  
Marine pollutant YES  
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IPRODIONE SOLUTION)

#### IATA

UN number **3082**  
Class 9  
Packaging group III  
Environm. Hazardous Mark YES  
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IPRODIONE 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.

## SECTION 15. REGULATORY INFORMATION

### 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 contains a chemical known to the State of California to cause cancer.

Iprodione 36734-19-7

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

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

1,2-Propanediol	57-55-6	MN
-----------------	---------	----

### Canadian Regulations

#### Canadian Domestic Substance List

1,2-Propanediol	57-55-6
-----------------	---------

### Environmental CERCLA





## Safety Data Sheet

### INTERFACE® STRESSGARD™

SDS Number: 102000021104  
SDS Version 1.0

None.

#### Clean Water Section 307 Priority Pollutants

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

## SECTION 16. OTHER INFORMATION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
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 - 1      Flammability - 1      Instability - 0      Others - none

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

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: New Safety Data Sheet.

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

Revision Date: 08/14/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.