# Intuity® Fungicide



# Safety Data Sheet (GHS)

# 1. IDENTIFICATION

**Product identifier** 

PRODUCT NAME: Intuity® Fungicide

PCPA REGISTRATION NUMBER: 32288
VC NUMBER(S): 1930
Synonyms None

PRODUCT DESCRIPTION: Fungicide

Intuity ® is a registered trademark of Sumitomo Chemical Company, Limited

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

MANUFACTURER/DISTRIBUTOR

VALENT CANADA, INC.
Unit 201 230 Hanlon Creek Blvd.
Guelph, Ontario N1C 0A1
(519) 767-9262
www.valent.ca

**EMERGENCY TELEPHONE NUMBERS** 

HEALTH EMERGENCY OR SPILL (24 hr): (800) 682-5368
TRANSPORTATION (24 hr.): CHEMTREC (800) 424-9300 or (202) 483-7616

24 Hour Emergency Phone Number: 800-682-5368

Restrictions on emergency number None

# 2. HAZARDS IDENTIFICATION

Classification: Per WHMIS 2015

This product has been classified under the Guidelines of 2015 Health Canada requirements and the implementation of the GHS (Revision 5) under HPR and the HPA.

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Label elements

**WARNING** 

**Hazard statements** 

Harmful if inhaled

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#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTRE or doctor/physician if you feel unwell

#### OTHER INFORMATION

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Mandestrobin	173662-97-0	43.4	-	-
Propylene glycol	57-55-6	5 - 9	-	-
Starch	9005-25-8	1	-	-
Potassium hydroxide, 45%	1310-58-3	<0.6	-	-
Other ingredients	Various CAS#s	46 - 50	-	-

# 4. FIRST AID MEASURES

General advice Have the product container or label with you when calling a poison control centre or doctor,

or going for treatment. You may also contact 1-800-682-5368 for emergency medical

treatment information.

Inhalation Move the person to fresh air. If the person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control

centre or doctor for further treatment advice.

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, and after the first 5 minutes, then continue rinsing eye. Call a poison

control centre or doctor for treatment advice.

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 Skin contact

minutes. Call a poison control centre or doctor for treatment advice.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

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**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

surrounding environment.

Small Fire Dry chemical or CO2. Water spray.

**Large Fire** Do NOT use water jet or straight streams.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products: Normal combustion forms carbon dioxide, water vapor and may produce. hydrogen cyanide

(HCN),. oxides of nitrogen,. carbon monoxide,.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment for

fire-fighters

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment On Land: Avoid runoff into storm sewers and ditches which lead to waterways, or other

bodies of water. Contain spilled liquids with dry sorbents.

In Water: This material will disperse or dissolve in water. Stop the source of the release.

Contain and isolate to prevent further release into surface or groundwater.

Methods for cleaning up For Spills on Land: Clean up spill immediately. Absorb spill with inert material (such as dry

sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent. Vacuum or sweep up sorbent material and

place into chemical waste container.

For Spills in Water: Clean up spill immediately. Absorb spill with inert material. Remove

contaminated material for treatment or disposal.

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# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after Advice on safe handling

handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing. Wear personal protective equipment when handling this product.

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

**Storage Conditions** Keep pesticide in original container. Do not store or transport near food or feed. Do not

contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, out of direct sunlight. Do not store at temperatures below 32 °F (0 °C). If the product is exposed to temperatures below 32 °F (0 °C), thaw at room temperature to 50 °F (10 °C) or warmer and shake gently

to unify the product.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Limits** 

exposure limits established by the region specific regulatory bodies.

Chemical name	Alberta	British Columbia	Ontario	Quebec
Propylene glycol			TWA: 10 mg/m <sup>3</sup>	
			TWA: 50 ppm	
			TWA: 155 mg/m <sup>3</sup>	
Starch	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
		TWA: 3 mg/m <sup>3</sup>		
Potassium hydroxide, 45%	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

#### Appropriate engineering controls

Showers **Engineering controls** 

> **Evewash stations** Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Do not get this material in your eyes. Eye contact can be avoided by wearing protective

eyewear.

Skin and body protection Avoid contact with skin or clothing. Skin contact can be minimized by wearing protective

clothing including gloves.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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Physical state Liquid **Appearance** Opaque Colour White Odour sweet

Odor threshold: No information available

**PROPERTIES** Values Remarks • Method

pН 6.8 @25°C (1% w/v suspension in @ 25° C (1% w/v suspension in water)

No Data Available None known Melting point/freezing point Boiling point/boiling range No data available None known >100 °C Flash point None known **Evaporation rate** No Data Available None known No Data Available Flammability (solid, gas) None known Flammability Limits in Air None known

Upper flammability limits No Data Available **Lower Flammability Limit:** No Data Available

Vapour pressure No Data Available None known Vapour density No Data Available None known Relative density No Data Available None known Water solubility No Data Available None known Solubility in other solvents No Data Available None known **Partition coefficient** No Data Available None known **Autoignition temperature** No Data Available None known No Data Available None known **Decomposition temperature** No Data Available None known Kinematic viscosity **Dynamic viscosity** 168 cP @ 20° C None known

OTHER INFORMATION

No information available. **Explosive properties Oxidizing properties** No information available. Softening point No information available Molecular weight No information available VOC (EPA METH.24) (G/L): No information available **Liquid Density** 1.1 g/mL @20° C

**Bulk density** Not applicable

# 10. STABILITY AND REACTIVITY

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Avoid high temperature and direct sunlight. Conditions to avoid

Incompatible materials Avoid strong oxidizing agents and alkaline materials.

**Hazardous Decomposition** 

**Products:** 

May emit toxic gases and irritating fumes under fire conditions.

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

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Oral Toxicity LD 50 (rats)	3,129 mg/kg	EPA Tox Category	Ш
Dermal Toxicity LD 50 (rats)	> 5,000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC 50 (rats)	> 2.04 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Minimally irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Minimally irritating	EPA Tox Category	IV

Mouse (LLNA method)

Non-sensitizer

EPA Tox Category

Not applicable

#### **CARCINOGEN CLASSIFICATION**

Chemical name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Mandestrobin	Not listed	Not listed	Not listed
Propylene glycol	Not listed	Not listed	Not listed
Starch	Not listed	Not listed	Not listed
Other ingredients	Not listed	N'est pas classée	Not listed

#### **TOXICITY OF MANDESTROBIN TECHNICAL**

**Chronic/Carcinogenicity:** Rat and Mouse carcinogenicity studies (diet) with Mandestrobin Technical: Non-carcinogenic

**Reproduction:** A rat two-generation reproductive toxicity study (diet) with Mandestrobin Technical: No effect on reproduction. No effect on fertility, non-embryo/fetal lethal

**Mutagenicity:** Mandestrobin Technical was negative for the Ames test.

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

# 12. ECOLOGICAL INFORMATION

**AVIAN TOXICITY:** Test results for mandestrobin technical on avian species include:

Acute Oral LD 50 canary: greater than 2000 mg/kg bw Acute Oral LD 50 bobwhite quail: greater than 2250 mg/kg bw Acute Dietary LC 50 mallard duck: greater than 5620 ppm Acute Dietary LC 50 bobwhite quail: greater than 5620 ppm Reproduction bobwhite quail: NOEC = 1000 ppm

Reproduction bobwhite quail: NOEC = 1000 ppm Reproduction mallard duck: NOEC = 1000 ppm

**AQUATIC ORGANISM TOXICITY:** Test results for mandestrobin technical on aquatic species include:

Acute LC 50 (96 hr) Bluegill Sunfish: 2.3 mg/L Acute LC 50 (96 hr) Rainbow Trout: 0.94 mg/L

Acute LC 50 (96 hr) Sheepshead Minnow: greater than 2.2 mg/L

Acute EC 50 (48 hr) Daphnia magna: 1.2 mg/L Acute LC 50 (96 hr) Mysid Shrimp: 0.43 mg/L Acute EC 50 (96 hr) Green algae: = 0.33 mg/L Acute EC 50 (7 d) Duckweed: greater than 2.3 mg/L

OTHER NON-TARGET ORGANISM TOXICITY:

Test results for mandestrobin technical on non-target species include:

Honeybee Acute Oral LD 50: greater than 111 ug (microgram)/bee Honeybee Acute Contact LD 50: greater than 100 ug (microgram)/bee

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# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

For information on disposal of unused, unwanted product, contact the provincial regulatory agency or manufacturer. Contact the manufacturer and the provincial regulatory agency in

case of a spill, and for clean-up of spills.

Contaminated packaging

Refer to pesticide label for proper container disposal instructions based on container type

and size.

#### 14. TRANSPORTATION INFORMATION

**DOT (ground) shipping name:** Not regulated for domestic ground transport by US DOT or Canada TDG.

ICAO/IATA proper shipping

name: Remarks: UN 3082, Environmentally hazardous substance, liquid, n.o.s., (mandestrobin), 9,

III, marine pollutant

•Single or inner packaging less than 5 L (liquids) or 5 kg net (solids) excepted from

Dangerous Goods regulations -- see IATA Special Provision A197. •For U.S. shipping, Emergency Response Guidebook No. 171.

IMDG proper shipping name:

UN 3082, Environmentally hazardous substance, liquid, n.o.s., (mandestrobin), 9,

III, marine pollutant

Remarks:

•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from

Dangerous Goods regulations – see IMDG 2.10.2.7

•For US shipping, Emergency Response Guidebook No. 171

**EMS No.:** F-A, S-F

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### PMRA LABEL INFORMATION THAT DIFFERS FROM WHMIS-GHS REQUIREMENTS:

Pesticide products in Canada are registered by PMRA and are subject to certain labeling requirements under federal pesticide law. The label, as specified in the Pest Control Products Act, is the main document to be followed for safety, use, and handling. These label requirements may differ from the classification criteria and hazard information required under WHMIS GHS for the data sheets and for workplace labels of non-pesticide chemicals. The following hazard information is required on the product label:

PMRA SIGNAL WORD: • No Signal Word Required

PMRA pesticide label hazard information: Keep out of reach of children.

Chemical name	Canada DSL Inventory List -	Canada NDSL Inventory List -	EINECS Inventory List -
Propylene glycol	Present		Present
Starch	Present		Present
Potassium hydroxide, 45%	Present		Present

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

**PESTICIDE REGULATIONS:** All pesticides are governed under PCPA (Pest Control Products Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

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**PROVINCIAL REGULATIONS:** This product did not trigger any provincial regulations.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

# 16. OTHER INFORMATION

**REASON FOR ISSUE:** Updated information to meet WHMIS 2015 (GHS) regulations.

SDS NO.: CAN-0417 **PCPA REGISTRATION NUMBER: 32288 REVISION NUMBER:** 

**REVISION DATE:** 08/29/2019 **SUPERCEDES DATE:** August 12, 2013

confirm that you have the most current product label and SDS.

Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803 **RESPONSIBLE PERSON(S):** 

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent Canada, Inc. and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent Canada, Inc. nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the

The Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE PMRA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use.

suitability of this information for their own particular use of this product. If necessary, contact Valent Canada, Inc. to

The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the PMRA under the authority of the Pest Control Products Act through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use a PMRA-registered pesticide product in any manner inconsistent with its labeling.

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