

### **ESPLANADE™ SC HERBICIDE**

Version 2.0 / CDN 102000023686

1/10 Revision Date: 06/14/2016 Print Date: 06/14/2016

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

ESPLANADE™ SC HERBICIDE
79930208
102000023686
31333
e substance or mixture and uses advised against
Herbicide
See product label for restrictions.
Bayer CropScience Inc #200, 160 Quarry Park Blvd, SE Calgary, Alberta T2C 3G3 Canada
Email: SDSINFO.BCS-NA@bayer.com
1-800-334-7577
1-888-283-6847

### **SECTION 2: HAZARDS IDENTIFICATION**

**Classified in accordance with Part 2 of the Hazardous Products Regulations** Specific target organ toxicity - repeated exposure: Category 2

#### Labelling in accordance with Part 2 of the Hazardous Products Regulations



#### Signal word: Warning

#### Hazard statements

May cause damage to organs (Nervous system) through prolonged or repeated exposure.

#### **Precautionary statements**

Do not breathe spray. Get medical advice/ attention if you feel unwell.



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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**

Hazardous Component Name Indaziflam **CAS-No.** 950782-86-2 Concentration % by weight 19.05

### **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. 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.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No symptoms known or expected.	
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.	

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### **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet
Special hazards arising from the substance or mixture	In the event of fire the following may be released:, Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NOx)
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. 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	> 100 °C Not relevant; aqueous solution
Auto-ignition temperature	No data available
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.	
Methods and materials for con	ntainment 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.	
Additional advice	Use personal protective equipment. 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.	



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### SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	g
Advice on safe handling	Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Advice on protection against fire and explosion	No special precautions required.
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. Protect from freezing.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Indaziflam	950782-86-2	0.14 mg/m³ (TWA)		OES BCS*
1,2-Propanediol (Aerosol.)	57-55-6	10 mg/m³ (TWAEV)	11 2010	CAD ON OEL
1,2-Propanediol (Vapor and aerosol.)	57-55-6	155 mg/m³/50 ppm (TWAEV)	06 2015	CAD ON OEL

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

#### **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

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.



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Hand protection	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
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
Physical State	suspension
Odor	characteristic
Odour Threshold	No data available
рН	7.0 - 8.5 at 1 % (23 °C) (deionized water)
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	ca. 1.05 g/cm³ at 20 °C
Evaporation rate	No data available
Boiling Point Melting / Freezing Point	No data available No data available
Water solubility	dispersible
Minimum Ignition Energy	Not applicable
Decomposition temperature	Stable under normal conditions.
Partition coefficient: n- octanol/water	No data available
Flash point	> 100 °C Not relevant; aqueous solution
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable
Other information	Further safety related physical-chemical data are not known.



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### SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Store only in the original container.
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

### SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Immediate Effects	Eye contact, Inhalation, Skin Absorption, Ingestion
Skin	Harmful if absorbed through skin.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled.
Information on toxicological	effects
Acute oral toxicity	LD50 (Rat) >= 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rabbit) > 3.624 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (Rat) > 2,000 mg/kg
Skin irritation	No skin irritation (Rabbit)
Eye irritation	No eye irritation (Rabbit)
Sensitisation	Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test

#### Assessment repeated dose toxicity

Indaziflam caused neurobehavioral effects and/or neuropathological changes in subchronic studies in rats and dogs.

#### Assessment mutagenicity

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

#### Assessment carcinogenicity



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

ACGIH

None.

NTP

None.

IARC

None.

**OSHA** 

None.

#### Assessment toxicity to reproduction

Indaziflam was not a primary reproductive toxicant in a two-generation study in rats.

#### Assessment developmental toxicity

Indaziflam did not cause developmental toxicity in rats and rabbits.

#### **Further information**

Acute toxicity studies have not been performed on this product as formulated. Acute toxicity studies have been bridged from a similar formulation(s). The non-acute information pertains to the active ingredient(s).

### **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 149 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.75 mg/l Exposure time: 72 h
Biodegradability	Indaziflam: Not rapidly biodegradable
Кос	Indaziflam: Koc: 496
Bioaccumulation	Indaziflam: Bioconcentration factor (BCF) 66 Does not bioaccumulate.
Mobility in soil	Indaziflam: Moderately mobile in soils
Additional ecological information	No other effects to be mentioned.
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

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organisms in adjacent sites. Apply this product as specified on the label.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product	In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.
Contaminated packaging	Do not re-use empty containers. 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**

<b>TDG</b> UN number Labels Packaging group Marine pollutant Proper shipping name	<b>3082</b> 9 III Marine pollutant ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM)
49CFR	Not dangerous goods / not hazardous material
IMDG UN number Class Packaging group Marine pollutant Proper shipping name	<b>3082</b> 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION)
IATA UN number Class Packaging group Environm. Hazardous Mark Proper shipping name	<b>3082</b> 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION)



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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**

PCP Registration No. 31333 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 None.

#### **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



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EINECS ELINCS	European inventory of existing commercial substances European list of notified chemical substances					
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents					
IATA	International Air Tr	International Air Transport Association				
IMDG	International Mariti	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 F	lammability - 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:** Revised according to the current Canadian WHMIS standard (WHMIS 2015). The following sections have been revised: Section 11: Toxicological Information.

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

#### **Revision Date:** 06/14/2016

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