



## Safety Data Sheet ESPLANADE® EZ

SDS Number: 102000025082

SDS Version 2.1

Revision Date: 06/24/2013

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### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Product name</b>	ESPLANADE® EZ
<b>SDS Number</b>	102000025082
<b>Product code (UVP)</b>	80197926
<b>EPA Registration No.</b>	432-1528
<b>Product Use</b>	Herbicide

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-800-331-2867

### SECTION 2. HAZARDS IDENTIFICATION

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

**Emergency Overview** Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing.

<b>Physical State</b>	Liquid
<b>Odor</b>	characteristic
<b>Appearance</b>	white to pink
<b>Exposure routes</b>	Ingestion, Skin Absorption, Eye contact
<b>Immediate Effects</b>	
<b>Eye</b>	Moderate eye irritation. Avoid contact with eyes.
<b>Skin</b>	May cause skin irritation. Harmful if absorbed through skin. Avoid contact with skin and clothing.
<b>Ingestion</b>	Harmful if swallowed. Do not take internally.
<b>Chronic or Delayed Long-Term</b>	This product or its components may have target organ effects.



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**Potential Environmental Effect** Toxic to fish and aquatic invertebrates. This product may cause adverse effects on non-target plants.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Indaziflam	950782-86-2	0.089
Diquat dibromide	85-00-7	0.89
Glyphosate, isopropylamine salt	38641-94-0	20.46
Synthetic amorphous silica	112926-00-8	1.00

### 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 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>	> 93.4 °C / 200.1 °F
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available



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<b>Upper Flammability Limit</b>	no data available
<b>Explosiveness</b>	not applicable
<b>Fire and Explosion Hazards</b>	Dangerous gases are evolved in the event of a fire.
<b>Suitable extinguishing media</b>	Water spray, Foam, Carbon dioxide (CO <sub>2</sub> ), Dry chemical
<b>Unsuitable extinguishing media</b>	None known.
<b>Fire Fighting Instructions</b>	<p>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. Whenever possible, contain fire-fighting water by diking area with sand or earth.</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>	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

### SECTION 7. HANDLING AND STORAGE

<b>Handling procedures</b>	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.
<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. Protect from freezing.
<b>Work/Hygienic</b>	Remove soiled clothing immediately and clean thoroughly before using again.



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**Procedures** Wash thoroughly and put on clean clothing.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General Protection** There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.

Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Do not allow children or pets to enter the treated area until it has dried.

#### Exposure Limits

Indaziflam	950782-86-2	OES BCS*	TWA	0.14 mg/m <sup>3</sup>
Diquat dibromide	85-00-7	ACGIH	TWA	0.5 mg/m <sup>3</sup>
		ACGIH	TWA	0.1 mg/m <sup>3</sup>
		NIOSH	REL	0.5 mg/m <sup>3</sup>
		TN OEL	TWA	0.5 mg/m <sup>3</sup>
		TX ESL	AN ESL	0.1 ug/m <sup>3</sup>
		TX ESL	ST ESL	1 ug/m <sup>3</sup>
		US CA OEL	TWA PEL	0.5 mg/m <sup>3</sup>
Glyphosate, isopropylamine salt	38641-94-0	TX ESL	ST ESL	50 ug/m <sup>3</sup>
		TX ESL	AN ESL	5 ug/m <sup>3</sup>
Synthetic amorphous silica	112926-00-8	OSHA Z1A	TWA	6 mg/m <sup>3</sup>
		TN OEL	TWA	6 mg/m <sup>3</sup>

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

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	white to pink
<b>Physical State</b>	Liquid
<b>Odor</b>	characteristic
<b>pH</b>	4.0 - 6.0 (100 %)
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available



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Density	1.10 g/cm <sup>3</sup> at 20 °C
Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	no data available
Water solubility	soluble
Minimum Ignition Energy	not applicable
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity	300 - 800 cps

## SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing
Incompatibility	no data available
Hazardous Decomposition Products	Thermal decomposition can lead to release of: Carbon oxides Nitrogen oxides (NO <sub>x</sub> ) Oxides of phosphorus
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Chemical Stability	Stable under normal conditions.

## SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on the formulated product.

Acute oral toxicity	rat: LD50: > 5,000 mg/kg
Acute dermal toxicity	rabbit: LD50: > 2,000 mg/kg



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<b>Acute inhalation toxicity</b>	rat: LC50: > 2.04 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.  rat: LC50: > 8.16 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
<b>Skin irritation</b>	rabbit: Moderate skin irritation.
<b>Eye irritation</b>	rabbit: Mild eye irritation.
<b>Sensitisation</b>	guinea pig: Non-sensitizing.
<b>Chronic toxicity</b>	Indaziflam caused neurobehavioral effects and/or neuropathological changes in subchronic studies in rats and dogs.  Glyphosate did not cause specific target organ toxicity in experimental animal studies.

#### Assessment Carcinogenicity

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

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

#### ACGIH

None.

#### NTP

None.

#### IARC

#### OSHA

None.

<b>Reproductive toxicity</b>	Indaziflam 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 Indaziflam is related to parental toxicity.  Glyphosate did not cause reproductive toxicity in a two-generation study in rats.
<b>Developmental Toxicity</b>	Indaziflam did not cause developmental toxicity in rats and rabbits.  Glyphosate did not cause developmental toxicity in rats and rabbits.
<b>Mutagenicity</b>	Indaziflam was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  Glyphosate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.



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### SECTION 12. ECOLOGICAL INFORMATION

**Environmental precautions** Do not allow to get into surface water, drains and ground water. 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 organisms in adjacent sites. Drift or runoff from treated areas may adversely affect non-target plants. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

### SECTION 13. DISPOSAL CONSIDERATIONS

**General Disposal Guidance** It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.

**Container Disposal** Do not re-use empty containers. Place empty container in trash.

**RCRA Information** Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

### SECTION 14. TRANSPORT INFORMATION

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

**IMDG**

UN number	<b>3082</b>
Class	9
Packaging group	III
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM, DIQUAT DIBROMIDE SOLUTION)

**IATA**

UN number	<b>3082</b>
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM, DIQUAT DIBROMIDE 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.



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### SECTION 15. REGULATORY INFORMATION

**EPA Registration No.** 432-1528

#### 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

Diquat dibromide	85-00-7	CA
Synthetic amorphous silica	112926-00-8	MN

#### Canadian Regulations

##### Canadian Domestic Substance List

Diquat dibromide	85-00-7
Glyphosate, isopropylamine salt	38641-94-0
Synthetic amorphous silica	112926-00-8

#### Environmental

##### CERCLA

Diquat dibromide	85-00-7	1,000 lbs
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##### Clean Water Section 307 Priority Pollutants

None.

##### Safe Drinking Water Act Maximum Contaminant Levels

None.

#### International Regulations

##### European Inventory of Existing Commercial Substances (EINECS)

Diquat dibromide	85-00-7
Glyphosate, isopropylamine salt	38641-94-0





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### SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 2      Flammability - 1      Instability - 1      Others - none

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

Health - 2      Flammability - 1      Physical Hazard - 1      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Reviewed and updated for general editorial purposes. The following sections have been revised: Section 11: Toxicological Information.

Revision Date: 06/24/2013

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