

**Safety Data Sheet ESPLANADE® EZ** 

SDS Number: 102000025082 SDS Version 2.1 Revision Date: 06/24/2013 Print Date: 06/24/2013

## **SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

ESPLANADE® EZ **Product name SDS Number** 102000025082 Product code (UVP) 80197926 **EPA Registration No.** 432-1528 **Product Use** 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.

Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation. **Emergency Overview** 

Avoid contact with skin, eyes and clothing.

**Physical State** Liquid

Odor characteristic

**Appearance** white to pink

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

**Immediate Effects** 

Eye Moderate eye irritation. Avoid contact with eyes.

Skin May cause skin irritation. Harmful if absorbed through skin. Avoid contact with

skin and clothing.

Ingestion Harmful if swallowed. Do not take internally.

**Chronic or Delayed** 

Long-Term

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**

Hazardous Component Name	CAS-No.	Average % by Weight
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**

General When possible, have the product container or label with you when calling a

poison control center or doctor or going for treatment.

Eye 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.

Skin 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.

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.

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.

Notes to physician

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's

condition is recommended. There is no specific antidote.

# **SECTION 5. FIRE FIGHTING MEASURES**

> 93.4 °C / 200.1 °F Flash point

Autoignition temperature no data available

**Lower Flammability** 

Limit

no data available



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Upper Flammability Limit no data available

**Explosiveness** not applicable

Fire and Explosion

Hazards

Dangerous gases are evolved in the event of a fire.

Suitable extinguishing

media

Water spray, Foam, Carbon dioxide (CO2), Dry chemical

Unsuitable extinguishing

media

None known.

Fire Fighting Instructions

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.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled

product or contaminated surfaces.

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.

## **SECTION 7. HANDLING AND STORAGE**

Handling procedures 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.

Storing Procedures 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.

Work/Hygienic 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/m3
Diquat dibromide	85-00-7	ACGIH	TWA	0.5 mg/m3
		ACGIH	TWA	0.1 mg/m3
		NIOSH	REL	0.5 mg/m3
		TN OEL	TWA	0.5 mg/m3
		TX ESL	AN ESL	0.1 ug/m3
		TX ESL	ST ESL	1 ug/m3
		US CA OEL	TWA PEL	0.5 mg/m3
Glyphosate, isopropylamine salt	38641-94-0	TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
Synthetic amorphous silica	112926-00-8	OSHA Z1A	TWA	6 mg/m3
		TN OEL	TWA	6 mg/m3

<sup>\*</sup>OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** white to pink

Physical State Liquid

**Odor** characteristic

**pH** 4.0 - 6.0 (100 %)

Vapor Pressure no data available

Vapor Density (Air = 1) no data available



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**Density** 1.10 g/cm³ 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** Thermal decomposition can lead to release of:

**Decomposition Products** Carbon oxides

Nitrogen oxides (NOx) 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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Acute inhalation toxicity

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.

**Skin irritation** rabbit: Moderate skin irritation.

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

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

Chronic toxicity 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.

Reproductive toxicity

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.

**Developmental Toxicity** 

Indaziflam did not cause developmental toxicity in rats and rabbits.

Glyphosate did not cause developmental toxicity in rats and rabbits.

Mutagenicity

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 3082 Class 9 Packaging group Ш Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(INDAZIFLAM, DIQUAT DIBROMIDE SOLUTION)

**IATA** 

**UN** number 3082 Class 9 Packaging group Ш YES Environm. Hazardous Mark

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Description of the goods

(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

**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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