

# SAFETY DATA SHEET according to NTC4435



## ESPLANADE SC500 12X1L BOT IL

Version 2 / CO  
102000023685

1/12  
Revision Date: 22.03.2017  
Print Date: 13.07.2017

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

#### Product identifier

**Trade name** ESPLANADE SC500 12X1L BOT IL

**Product code (UVP)** 79899351, 84105899

**SDS Number** 102000023685

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Herbicide

#### Information on supplier

**Supplier** Bayer S.A.  
Av. Américas 57 – 52  
Bogotá D.C.  
Colombia

**Telephone** +57 (1) 423 4500  
01 8000 111 212

**Responsible Department** Email: qadoc.colombia@bayer.com

#### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** +57 (1) 288 6012 (Atención 24h en Bogotá)

**CISPROQUIM** 01 8000 916012 (Atención 24h Línea Gratuita)

### SECTION 2. HAZARDS IDENTIFICATION

**Emergency Overview** Caution! Harmful if swallowed or absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

**Physical State** suspension  
**Odor** weak characteristic  
**Appearance** white to light beige

Specific target organ toxicity - repeated exposure: Category 2  
H373May cause damage to organs through prolonged or repeated exposure.  
Acute aquatic toxicity: Category 1  
H400Very toxic to aquatic life.  
Chronic aquatic toxicity: Category 1  
H410Very toxic to aquatic life with long lasting effects.



**ESPLANADE SC500 12X1L BOT IL**Version 2 / CO  
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Revision Date: 22.03.2017  
Print Date: 13.07.2017**Signal word:** Warning**Hazard statements**

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statements**

Wear protective gloves/protective clothing/eye protection/face protection.

Get medical advice/ attention.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

No physical hazards not otherwise classified.

No health hazards not otherwise classified.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixtures****Chemical nature**

Suspension concentrate (=flowable concentrate)(SC)

Indaziflam 500 g/l

**Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

| Name       | CAS-No. /<br>EC-No. /<br>REACH Reg. No. | Classification  | Conc. [%] |
|------------|---|---|-----------|
|            |   | REGULATION (EC) No<br>1272/2008                                     |           |
| Indaziflam | 950782-86-2<br>01-2119859514-31-xxxx    | STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | 45.46     |

**Further information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

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|                       |  |
|-----------------------|--|
| <b>General advice</b> | Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.  |
| <b>Inhalation</b>     | Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.   |
| <b>Skin contact</b>   | Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.   |
| <b>Eye contact</b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>      | Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.  |

**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****SECTION 5. FIRE FIGHTING MEASURES****Extinguishing media**

|                   |  |
|-------------------|--|
| <b>Suitable</b>   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Unsuitable</b> | 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** In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** Not relevant; aqueous solution

**Auto-ignition temperature** No data available

**Lower explosion limit** No data available

**Upper explosion limit** No data available



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**Explosivity** Not applicable

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

**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**

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

**Advice on protection against fire and explosion** No special precautions required.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

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

**Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Protect from freezing. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**Suitable materials** HDPE (1000L IBC)

**Specific end use(s)** Refer to the label and/or leaflet.

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Print Date: 13.07.2017**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

| Components | CAS-No.     | Control parameters              | Update | Basis    |
|------------|-------------|---------------------------------|--------|----------|
| Indaziflam | 950782-86-2 | 0.14 mg/m <sup>3</sup><br>(TWA) |        | OES BCS* |

\*OES BCS: Internal Bayer AG, Crop Science Division "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**

Respiratory protection is not required under anticipated circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection**

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

|                      |  |
|----------------------|--|
| Material             | Nitrile rubber                           |
| Rate of permeability | > 480 min                                |
| Glove thickness      | > 0.4 mm                                 |
| Protective index     | Class 6                                  |
| Directive            | Protective gloves complying with EN 374. |

**Eye protection**

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection**

Wear standard coveralls and Category 3 Type 6 suit.  
If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

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

white to light beige

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|   |   |
|---|---|
| <b>Physical State</b>                         | suspension  |
| <b>Odor</b>                                   | weak characteristic   |
| <b>Odour Threshold</b>                        | No data available   |
| <b>pH</b>                                     | 7.0 - 8.5 at 1 % (23 °C) (deionized water)<br>8.0 - 9.5 at 100 % (23 °C)                              |
| <b>Vapor Pressure</b>                         | No data available   |
| <b>Vapor Density (Air = 1)</b>                | No data available   |
| <b>Density</b>                                | ca. 1.10 g/cm <sup>3</sup> at 20 °C   |
| <b>Evaporation rate</b>                       | No data available   |
| <b>Boiling Point</b>                          | No data available   |
| <b>Melting / Freezing Point</b>               | No data available   |
| <b>Water solubility</b>                       | dispersible   |
| <b>Minimum Ignition Energy</b>                | Not applicable  |
| <b>Decomposition temperature</b>              | Stable under normal conditions.   |
| <b>Partition coefficient: n-octanol/water</b> | No data available   |
| <b>Viscosity</b>                              | 250 - 400 mPa.s at 20 °C Velocity gradient 20 /s<br>100 - 250 mPa.s at 20 °C Velocity gradient 100 /s |
| <b>Flash point</b>                            | Not relevant; aqueous solution  |
| <b>Auto-ignition temperature</b>              | No data available   |
| <b>Lower explosion limit</b>                  | No data available   |
| <b>Upper explosion limit</b>                  | No data available   |
| <b>Explosivity</b>                            | Not applicable  |
| <b>Other information</b>                      | Further safety related physical-chemical data are not known.  |

**SECTION 10. STABILITY AND REACTIVITY**

|   |  |
|---|--|
| <b>Reactivity</b>                         |  |
| <b>Thermal decomposition</b>              | Stable under normal conditions.  |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.   |
| <b>Possibility of hazardous reactions</b> | No hazardous reactions when stored and handled according to prescribed instructions. |



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|   |  |
|---|--|
| <b>Conditions to avoid</b>              | Extremes of temperature and direct sunlight.                       |
| <b>Incompatible materials</b>           | Store only in the original container.                              |
| <b>Hazardous decomposition products</b> | No decomposition products expected under normal conditions of use. |

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Immediate Effects**

**Eye** Moderate eye irritation.

**Skin** Harmful if absorbed through skin.

**Ingestion** Harmful if swallowed.

**Inhalation** Harmful if inhaled.

**Information on toxicological effects**

**Acute oral toxicity** LD50 (Rat) > 2,000 mg/kg

**Acute inhalation toxicity** LC50 (Rat) 2.53 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. (Mouse)  
OECD Test Guideline 429, local lymph node assay (LLNA)

**Assessment STOT Specific target organ toxicity – repeated exposure**

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**

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

**ACGIH**

None.

**NTP**

None.

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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).

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**SECTION 12. ECOLOGICAL INFORMATION**

|  |  |
|--|--|
| <b>Toxicity to fish</b>                  | LC50 ( <i>Lepomis macrochirus</i> (Bluegill sunfish)) 0.85 mg/l<br>Exposure time: 96 h   |
| <b>Toxicity to aquatic invertebrates</b> | EC50 ( <i>Daphnia magna</i> (Water flea)) > 100 mg/l<br>Exposure time: 48 h  |
| <b>Toxicity to aquatic plants</b>        | EC50 ( <i>Lemna gibba</i> (gibbous duckweed)) 0.000151 mg/l<br>Growth rate; Exposure time: 7 d<br>Test conducted with a similar formulation.<br><br>EC50 ( <i>Raphidocelis subcapitata</i> (freshwater green alga)) 0.094 mg/l<br>Growth rate; Exposure time: 72 h<br>Test conducted with a similar formulation. |
| <b>Biodegradability</b>                  | Indaziflam:<br>Not rapidly biodegradable   |
| <b>Koc</b>                               | Indaziflam: Koc: 496   |
| <b>Bioaccumulation</b>                   | Indaziflam: Bioconcentration factor (BCF) 66<br>Does not bioaccumulate.  |
| <b>Mobility in soil</b>                  | Indaziflam: Moderately mobile in soils   |
| <b>Additional ecological information</b> | No other effects to be mentioned.  |
| <b>Environmental precautions</b>         | Do not allow to get into surface water, drains and ground water.   |

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|                               |   |
|-------------------------------|---|
| <b>Product</b>                | 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. |
| <b>Contaminated packaging</b> | Not completely emptied packagings should be disposed of as hazardous waste.   |

### SECTION 14. TRANSPORT INFORMATION

#### ADR/RID/ADN

|                            |   |
|----------------------------|---|
| UN number                  | <b>3082</b>   |
| Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION) |
| Transport hazard class(es) | 9   |
| Packing group              | III   |
| Environm. Hazardous Mark   | YES   |
| Hazard no.                 | 90  |
| Tunnel Code                | E   |

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

#### IMDG

|                            |   |
|----------------------------|---|
| UN number                  | <b>3082</b>   |
| Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION) |
| Transport hazard class(es) | 9   |
| Packing group              | III   |
| Marine pollutant           | YES   |

#### IATA

|                            |  |
|----------------------------|--|
| UN number                  | <b>3082</b>  |
| Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION ) |
| Transport hazard class(es) | 9  |
| Packing group              | III  |
| Environm. Hazardous Mark   | YES  |

#### Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

## SECTION 15. REGULATORY INFORMATION

### National Transport Information Colombia:

Ministerio de Transporte Decreto 1609 / 2002, establece los requisitos técnicos y de seguridad para el manejo y transporte de mercancías peligrosas por carretera en vehículos automotores en todo el territorio nacional, aplica a transportadores, remitente-dueño de la mercancía y destinatario, obliga: el rotulado de advertencia del riesgo y número UN de mayor peligrosidad de las mercancías transportadas al respectivo vehículo, etiquetado y rotulado de los envases y empaques aplicando la Norma NTC 1692, portar en el vehículo la(s) tarjeta(s) de emergencia de los productos, y el vehículo debe llevar equipo básico para atención de emergencias por incendio y derrame.

Ministerio de Salud, Decreto 1843/91, con todo lo relacionado al uso y manejo de plaguicidas. Código nacional de tránsito terrestre, decreto 1344/70, modificado por la ley 33/86, artículo 48: Transportar carga sin las medidas de protección, higiene y seguridad. Artículo 49: Transportar materiales inflamables, explosivos o tóxicos al mismo tiempo que pasajeros o alimentos, suspensión de la licencia de conducción. Ministerio de Desarrollo, Resolución 1086/84; oficializa la Norma Técnica Colombiana NTC 1692.

### ANDEAN PACT REGULATIONS:

General Secretariat of the Andean Community: Andean Resolution 630. Technical Manual for the registration and control of chemical pesticides for agricultural use. Section 3 of labeling requirements of packaging intended to contain chemical pesticides for agricultural use. Annex No. 5, corresponding to Material Safety Data Sheets (MSDS).

### 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.

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### Environmental

#### CERCLA

None.

#### Clean Water Section 307 Priority Pollutants

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

### EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed or absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

## SECTION 16. OTHER INFORMATION

### Text of the hazard statements mentioned in Section 3

H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

### Abbreviations and acronyms

|         |  |
|---------|--|
| ACGIH   | US. ACGIH Threshold Limit Values   |
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways                |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road                            |
| ATE     | Acute toxicity estimate  |
| CAS-Nr. | Chemical Abstracts Service number  |
| CERCLA  | Comprehensive Environmental Response, Compensation, and Liability Act  |
| EC-No.  | European community number  |
| ECx     | Effective concentration to x %   |
| EINECS  | European inventory of existing commercial substances   |
| ELINCS  | European list of notified chemical substances  |
| EN      | European Standard  |
| EU      | European Union   |
| IARC    | International Agency for Research on Cancer  |
| IATA    | International Air Transport Association  |
| IBC     | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx     | Inhibition concentration to x %  |

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|           |  |
|-----------|--|
| IMDG      | International Maritime Dangerous Goods   |
| LCx       | Lethal concentration to x %  |
| LDx       | Lethal dose to x %   |
| LOEC/LOEL | Lowest observed effect concentration/level   |
| MARPOL    | MARPOL: International Convention for the prevention of marine pollution from ships |
| N.O.S.    | Not otherwise specified  |
| NOEC/NOEL | No observed effect concentration/level   |
| NTP       | US. National Toxicology Program (NTP) Report on Carcinogens                        |
| OECD      | Organization for Economic Co-operation and Development                             |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail       |
| TWA       | Time weighted average  |
| UN        | United Nations   |
| WHO       | World health organisation  |

### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Instability - 1      Others - none  
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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**DESIGNACIÓN DE RESPONSABILIDADES:** La anterior información, cumple con el objetivo de proporcionar una guía, para la salud, transporte, almacenamiento y seguridad general de las sustancias o de los productos al cual se relaciona, usándose conforme a los propósitos estipulados en la etiqueta de los mismos. Toda la literatura de uso técnico apropiada, se debe consultar y debe cumplir con todas las licencias, autorizaciones y aprobaciones relevantes. Los requerimientos o recomendaciones de cualquier localidad sobresaliente, procedimientos de trabajo, sistemas, políticas en vigencia, resultantes de cualquier evaluación de riesgo, que involucre la sustancia o el producto, debe tomar precedencia, sobre cualquier directriz contenida en esta Hoja de Seguridad, donde exista una información dada. La información suministrada en esta Hoja de datos de Seguridad, es precisa en la fecha de publicación; esta será actualizada en la medida apropiada y no se aceptará responsabilidad alguna por cualquier lesión, pérdida o daño resultantes de alguna falla, por tener en cuenta la información contenida en esta HOJA DE SEGURIDAD.

|  |
|--|
| Changes since the last version are highlighted in the margin. This version replaces all previous versions. |
|--|