

**ESPLANADE SC500**Version 5 / ZA  
102000023685

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Revision Date: 20.07.2021  
Print Date: 03.08.2021**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

**Trade name** ESPLANADE SC500  
**Product code (UVP)** 79899351, 84105899

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Use** Herbicide

**1.3 Details of the supplier of the safety data sheet**

**Supplier** Bayer (Pty) Ltd.  
27 Wrench Road, P.O. Box 143  
1600 Isando  
South Africa

**Telephone** +27 (011) 921 5911  
**Telefax** +27 (011) 921 5766  
**Responsible Department** QHSE - Nigel, South Africa  
+27 (011) 365 8675 (during business hours only)

**1.4 Emergency telephone no.**

**Emergency telephone no.** +27 (0861) 555 777 (Western Cape Poisons Helpline)  
**Global Incident Response Hotline (24h)** +1 (760) 476 3964 (Company 3E for Bayer AG, Crop Science Division)

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

**Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Specific target organ toxicity - single exposure: Category 2

H371 May cause damage to organs (Nervous system) if swallowed.

Specific target organ toxicity - repeated exposure: Category 2

H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

**2.2 Label elements**

**Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

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- Indaziflam

**Signal word:** Warning**Hazard statements**

H371 May cause damage to organs (Nervous system) if swallowed.  
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if swallowed.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statements**

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with local regulation.

**2.3 Other hazards**

No additional hazards known beside those mentioned.

Indaziflam: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical nature**Suspension concentrate (=flowable concentrate)(SC)  
Indaziflam 500 g/l**Hazardous components**

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

| <b>Name</b>                   | <b>CAS-No. /<br/>EC-No. /<br/>REACH Reg. No.</b> | <b>Classification</b>  | <b>Conc. [%]</b> |
|-------------------------------|--|--|------------------|
|                               |  | <b>REGULATION (EC) No<br/>1272/2008</b>  |                  |
| Indaziflam                    | 950782-86-2<br>01-2119859514-31-xxxx             | STOT SE 2, H371<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                       | 45,46            |
| Ethoxylated<br>polyarylphenol | 99734-09-5                                       | Aquatic Chronic 3, H412  | >= 0,1 <= 25     |
| 1,2-Propanediol               | 57-55-6<br>01-2119456809-23-XXXX                 | Not classified   | >= 1             |
| 1,2-Benzisothiazol-3(2H)-one  | 2634-33-5<br>01-2120761540-60-0003               | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 | > 0,005 < 0,05   |

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|                              |             |   |
|------------------------------|-------------|---|
| Indaziflam                   | 950782-86-2 | M-Factor: 10.000 (acute), 1.000 (chronic) |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5   | M-Factor: 10 (acute)                      |

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

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

|                       |  |
|-----------------------|--|
| <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.  |

**4.2 Most important symptoms and effects, both acute and delayed**

|                 |                                |
|-----------------|--------------------------------|
| <b>Symptoms</b> | No symptoms known or expected. |
|-----------------|--------------------------------|

**4.3 Indication of any immediate medical attention and special treatment needed**

|                  |  |
|------------------|--|
| <b>Treatment</b> | Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote. |
|------------------|--|

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

|                   |  |
|-------------------|--|
| <b>Suitable</b>   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Unsuitable</b> | High volume water jet  |

|  |   |
|--|---|
| <b>5.2 Special hazards arising from the substance or mixture</b> | In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NOx) |
|--|---|

**5.3 Advice for firefighters**

|  |  |
|--|--|
| <b>Special protective equipment for firefighters</b> | In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. |
|--|--|

**Further information**

|  |
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| Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses. |
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Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling****Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.**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).**7.2 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)**7.3 Specific end use(s)** Refer to the label and/or leaflet.**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

| Components                        | CAS-No.     | Control parameters              | Update | Basis    |
|-----------------------------------|-------------|---------------------------------|--------|----------|
| Indaziflam                        | 950782-86-2 | 0,56 mg/m <sup>3</sup><br>(TWA) |        | OES BCS* |
| 1,2-Propanediol<br>(Particulate.) | 57-55-6     | 10 mg/m <sup>3</sup><br>(TWA)   | 1995   | ZA REL   |

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|   |         |   |      |        |
|---|---------|---|------|--------|
| 1,2-Propanediol<br><br>(Total vapour and particulates.) | 57-55-6 | 470 mg/m <sup>3</sup> /150 ppm<br>(TWA) | 1995 | ZA REL |
|---|---------|---|------|--------|

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

**8.2 Exposure controls****Personal protective equipment**

Formulated product

**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 4 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****9.1 Information on basic physical and chemical properties****Form** suspension**Colour** white to light beige**Odour** weak, characteristic**Odour Threshold** No data available**pH** 7,0 - 8,5 (1 %) (23 °C) (deionized water)  
7,5 - 9,5 (100 %) (23 °C)**Melting point/range** No data available**RESTRICTED**

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No data available

**Flash point**

&gt; 100 °C

Not relevant; aqueous solution

**Flammability**

No data available

**Auto-ignition temperature**

555 °C

**Thermal decomposition**

No data available

**Minimum ignition energy**

Not applicable

**Self-accelarating decomposition temperature (SADT)**

No data available

**Upper explosion limit**

No data available

**Lower explosion limit**

No data available

**Vapour pressure**

No data available

**Evaporation rate**

No data available

**Relative vapour density**

No data available

**Relative density**

No data available

**Density**ca. 1,10 g/cm<sup>3</sup> (20 °C)**Water solubility**

dispersible

**Partition coefficient: n-octanol/water**

No data available

**Partition coefficient: n-octanol/water**

Indaziflam: log Pow: 3,7 (20 °C) (pH 7)

**Viscosity, dynamic**

250 - 400 mPa.s (20 °C)

Velocity gradient 20 /s

100 - 250 mPa.s (20 °C)

Velocity gradient 100 /s

**Viscosity, kinematic**

No data available

**Surface tension**

30,9 mN/m (25 °C)

Determined in the undiluted form.

**Oxidizing properties**

No oxidizing properties

**Explosivity**

Not explosive

92/69/EEC, A.14 / OECD 113

**9.2 Other information**

Further safety related physical-chemical data are not known.

**SECTION 10: STABILITY AND REACTIVITY****10.2 Chemical stability**

Stable under recommended storage conditions.

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| <b>10.3 Possibility of hazardous reactions</b> | No hazardous reactions when stored and handled according to prescribed instructions. |
| <b>10.4 Conditions to avoid</b>                | Extremes of temperature and direct sunlight.   |
| <b>10.5 Incompatible materials</b>             | Store only in the original container.  |
| <b>10.6 Hazardous decomposition products</b>   | No decomposition products expected under normal conditions of use.                   |

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

|  |   |
|--|---|
| <b>Acute oral toxicity</b>               | LD50 (Rat) > 2.000 mg/kg  |
| <b>Acute inhalation toxicity</b>         | LC50 (Rat) > 2,53 mg/l<br>Exposure time: 4 h<br>Determined in the form of a respirable aerosol.<br>No deaths<br>Highest attainable concentration. |
| <b>Acute dermal toxicity</b>             | LD50 (Rat) > 2.000 mg/kg  |
| <b>Skin corrosion/irritation</b>         | No skin irritation (Rabbit)   |
| <b>Serious eye damage/eye irritation</b> | No eye irritation (Rabbit)  |
| <b>Respiratory or skin sensitisation</b> | Skin: Non-sensitizing. (Mouse)<br>OECD Test Guideline 429, local lymph node assay (LLNA)  |

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

Indaziflam: May cause damage to organs in nervous system following oral route.

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

Indaziflam caused neurobehavioral effects and/or neuropathological changes in subchronic studies in rats and dogs. Indaziflam: May cause damage to organs (Nervous system) through prolonged or repeated exposure.

**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.

**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.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Further information**

Acute toxicity studies have not been performed on this product as formulated.

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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****12.1 Toxicity****Toxicity to fish** LC50 (Lepomis macrochirus (Bluegill sunfish)) 0,85 mg/l

Exposure time: 96 h

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) > 100 mg/l

Exposure time: 48 h

**Toxicity to aquatic plants** EC50 (Lemma gibba (gibbous duckweed)) 0,000151 mg/l

Growth rate; Exposure time: 7 d

Test conducted with a similar formulation.

EC50 (Raphidocelis subcapitata (freshwater green alga)) 0,094 mg/l

Growth rate; Exposure time: 72 h

Test conducted with a similar formulation.

**12.2 Persistence and degradability****Biodegradability** Indaziflam:  
Not rapidly biodegradable**Koc** Indaziflam: Koc: 496**12.3 Bioaccumulative potential****Bioaccumulation** Indaziflam: Bioconcentration factor (BCF) 66  
Does not bioaccumulate.**12.4 Mobility in soil****Mobility in soil** Indaziflam: Moderately mobile in soils**12.5 Results of PBT and vPvB assessment****PBT and vPvB assessment** Indaziflam: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).**12.6 Other adverse effects****Additional ecological information** No other effects to be mentioned.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 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** Not completely emptied packagings should be disposed of as hazardous waste.**SECTION 14: TRANSPORT INFORMATION****RESTRICTED**

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|                                 |   |
|---------------------------------|---|
| 14.1 UN number                  | <b>3082</b>   |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(INDAZIFLAM SOLUTION) |
| 14.3 Transport hazard class(es) | 9   |
| 14.4 Packaging Group            | III   |
| 14.5 Environm. Hazardous Mark   | YES   |

**IMDG**

|                                 |   |
|---------------------------------|---|
| 14.1 UN number                  | <b>3082</b>   |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(INDAZIFLAM SOLUTION) |
| 14.3 Transport hazard class(es) | 9   |
| 14.4 Packaging Group            | III   |
| 14.5 Marine pollutant           | YES   |

**IATA**

|                                 |  |
|---------------------------------|--|
| 14.1 UN number                  | <b>3082</b>  |
| 14.2 Proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(INDAZIFLAM SOLUTION ) |
| 14.3 Transport hazard class(es) | 9  |
| 14.4 Packaging Group            | III  |
| 14.5 Environm. Hazardous Mark   | YES  |

**14.6 Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

No transport in bulk according to the IBC Code.

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**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Further information**

WHO-classification: III (Slightly hazardous)

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**SECTION 16: OTHER INFORMATION****Text of the hazard statements mentioned in Section 3**

|      |   |
|------|---|
| H302 | Harmful if swallowed.   |
| H315 | Causes skin irritation.   |
| H317 | May cause an allergic skin reaction.  |
| H318 | Causes serious eye damage.  |
| H371 | May cause damage to organs.   |
| H373 | May cause damage to organs (Nervous system) through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.   |
| H410 | Very toxic to aquatic life with long lasting effects.                               |
| H412 | Harmful to aquatic life with long lasting effects.                                  |

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|           |  |
|-----------|--|
| 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  |
| Conc.     | Concentration  |
| 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   |
| 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 %  |
| 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   |
| 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  |

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 9: Physical and Chemical Properties. Section 11: Toxicological information on STOT (Specific Target Organ Toxicity) and CMR (Carcinogenic, Mutagenic and toxic to Reproduction). Section 16: Other Information.

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

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