Esplanade® Herbicide

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 102000023685
 Print Date: 18.06.2020

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name Esplanade® Herbicide **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 Cropscience Pty Ltd

ABN 87 000 226 022 Level 1, 8 Redfern Road 3123 Hawthorn East

Victoria Australia

Telephone (03) 9248 6888 **Telefax** (03) 9248 6800

Responsible Department 1800 804 479 Technical Information Service

Website www.es.bayer.com.au

1.4 Emergency telephone no.

Emergency telephone no. 1800 033 111 IXOM Operations Pty Ltd

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Australian GHS Regulation

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.

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

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe mist. P260 Do not breathe spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P314 Get medical advice/ attention if you feel unwell.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Indaziflam 500 g/l

Suspension concentrate (=flowable concentrate)(SC)

Chemical name	CAS-No.	Concentration [%]
Indaziflam	950782-86-2	45.46
Ethoxylated polyarylphenol	99734-09-5	>= 0.10 - <= 25.00
1,2-Propanediol	57-55-6	>= 1.00
1,2-Benzisothiazol-3(2H)-one	2634-33-5	> 0.005 - < 0.05
Other ingredients (non-hazardous) to 100%		

SECTION 4. FIRST AID MEASURES

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If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

4.1 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.

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

Skin contact Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water. If symptoms

persist, call a physician.

Eye contact 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.

Ingestion 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

Symptoms No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment 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. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

5.2 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)

5.3 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.

Hazchem Code •3Z

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water.

6.3 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.

6.4 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.

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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Indaziflam	950782-86-2	0.56 mg/m3 (TWA)		OES BCS*
1,2-Propanediol	57-55-6	10 mg/m3 (TWA)	12 2011	AU NOEL
(Particulate.)				

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1,2-Propanediol	57-55-6	474 mg/m3/150 ppm (TWA)	12 2011	AU NOEL
(Total vapour and particulates.)		,		

^{*}OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

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.

Engineering Controls

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1Information on basic physical and chemical properties

Form suspension

Colourwhite to light beigeOdourweak, characteristicOdour ThresholdNo data available

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pH 7.0 - 8.5 (1 %) (23 °C) (deionized water)

7.5 - 9.5 (100 %) (23 °C)

Melting point/range No data available

Boiling Point

No data available

Flash point > 100 °C

Not relevant; aqueous solution

Flammability No data available

Auto-ignition temperature 555 °C

Self-accelarating

decomposition temperature

(SADT)

No data available

Upper explosion limit

Lower explosion limit

No data available

Vapour pressure

No data available

Evaporation rate

Relative vapour density

No data available

No data available

No data available

No data available

Density ca. 1.10 g/cm³ (20 °C)

Water solubility suspensive

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

9.20ther information Further safety related physical-chemical data are not known.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

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10.3 Possibility ofNo hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous No decomposition products expected under normal conditions of use.

decomposition products

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 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.

No deaths

Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg
Skin corrosion/irritation No skin irritation (Rabbit)
Serious eye damage/eye No eye irritation (Rabbit)

irritation

Respiratory or skin Non-sensitizing. (Mouse)

sensitisation OECD Test Guideline 429, local lymph node assay (LLNA)

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.

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.

Aspiration hazard

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

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Information on likely routes of exposure

Caution!

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

Harmful if inhaled.

Harmful if absorbed through skin.

Moderate eye irritation. Harmful if swallowed.

Eye contact, Inhalation, Skin Absorption, Ingestion

Toxic to fish and aquatic invertebrates., This product may cause adverse effects on non-target plants.

Early onset symptoms related to exposure

Refer to Section 4

Delayed health effects from exposure

Refer to Section 11

Exposure levels and health effects

Refer to Section 4

Interactive effects

Not known

When specific chemical data is not available

Not applicable

Mixture of chemicals

Refer to Section 2.1

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

EC50 (Daphnia magna (Water flea)) > 100 mg/l

invertebrates Exposure time: 48 h

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

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Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Indaziflam: Moderately mobile in soils

12.5 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

SECTION 13. DISPOSAL CONSIDERATIONS

Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

SECTION 14. TRANSPORT INFORMATION

ADG

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(INDAZIFLAM SOLUTION)

Hazchem Code •3Z

AU01: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or

b) IBCs

IMDG

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III
Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(INDAZIFLAM SOLUTION)

IATA

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III

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Environm. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(INDAZIFLAM SOLUTION)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 Australian Pesticides and Veterinary Medicines Authority approval number: 86235

SECTION 16. OTHER INFORMATION

Trademark information Esplanade® is a Registered Trademark of the Bayer Group.

Abbreviations and acronyms

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

AU OEL Australia. OELs. (Adopted National Exposure Standards for Atmospheric

Contaminants in the Occupational Environment)

CAS-Nr. Chemical Abstracts Service number

CEILING Ceiling Limit Value 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) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

ICx

LOEC/LOEL Lowest observed effect concentration/level

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

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

Standard"

PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration

of a particular substance determined over the shortest analytically practicable period of

time which does not exceed 15 minutes.

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SK-SEN Skin sensitiser

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SKIN_DES SKIN_DES: Skin notation: Absorption through the skin may be a significant source of

exposure.

STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA

exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the

STEL.

TWA: Exposure standard - time-weighted average (TWA): The average airborne

concentration of a particular substance when calculated over a normal eight-hour

working day, for a five-day working week.

TWA Time weighted average

UN United Nations

WHO World health organisation

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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.