

**1. PRODUCT AND COMPANY IDENTIFICATION**

TRADE NAME: SUPPRESS® Herbicide EC, EPA Reg. No. 51517-9  
MANUFACTURER'S NAME: Westbridge Agricultural Products  
ADDRESS: 1260 Avenida Chelsea, Vista, CA 92081  
TELEPHONE NO.: (800) 876-2767  
POISON CONTROL TELEPHONE: (800) 222-1222  
COMPOSITION: Fatty Acids (Caprylic-Capric Acids)  
RECOMMENDED USE: A Liquid Herbicide Concentrate For Agricultural Use.

**2. HAZARD IDENTIFICATION**

CLASSIFICATION:

Irritant



SIGNAL WORD:

**WARNING.** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid contact with skin and clothing. Wear protective eyewear such as goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

OTHER HAZARDS:

**SUPPRESS® Herbicide EC** does not contain toxic chemicals in concentrations subject to the reporting requirements of OSHA or Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 or 40 CFR Part 372.

**3. COMPOSITION INFORMATION**

<u>COMPOSITION</u>	<u>Concentration %</u>	<u>CAS Number</u>
Caprylic Acid	47.0%	124-07-2
Capric Acid	32.0%	334-48-5
Inert Ingredients	21.0%	N/A

**4. FIRST AID MEASURES**

<i>If on Skin OR Clothing:</i>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<i>If on Eyes:</i>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice.
<i>If Inhaled:</i>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration. Call poison control center or doctor for treatment advice.
<i>If Swallowed:</i>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

NOTES TO PHYSICIAN: Treat patient symptomatically.

**5. FIRE-FIGHTING MEASURES**

GENERAL INFORMATION: THIS PRODUCT IS NOT FLAMMABLE  
FLASH POINT: N/A  
TEST METHOD: N/A  
EXTINGUISHING MEDIA: N/A  
SPECIAL FIRE FIGHTING PROCEDURES: N/A

AUTOIGNITION TEMPERATURE: N/A  
FLAMMABLE: This product is not flammable  
UNUSUAL FIRE AND EXPLOSION HAZARD: N/A

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**NEUTRALIZING CHEMICALS:** N/A

## 7. HANDLING AND STORAGE

### HANDLING REQUIREMENTS:

- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Workers should wash hands and face before eating, drinking and smoking.
- Wear appropriate respirator when ventilation is inadequate.
- Wear face mask or face shield.
- Wear impermeable or chemical resistant gloves.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist.

### STORAGE REQUIREMENTS:

- **KEEP OUT OF REACH OF CHILDREN.**
- Store in a dry and cool area above freezing and below 95°F and out of direct sunlight.
- Keep in the original container or an approved alternative made from a compatible material.
- Keep container tightly closed when not in use.
- Do not store in unlabeled containers.
- Do not reuse empty containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION REQUIREMENTS:** Indoor use - adequate mechanical ventilation

### SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

**EYE PROTECTION:** Wear goggles or face shield.

**RESPIRATORY PROTECTION:** Wear appropriate respirator when ventilation is inadequate. Do not intentionally breathe dust/spray.

**HAND PROTECTION:** Impermeable or chemical resistant gloves.

**OTHER EQUIPMENT:** Wear suitable protective clothing, such as face shield or face mask.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Clear, liquid with fatty odor. Rancid.

**pH:** 3.26 ± 0.5

**BOILING POINT, 760 MM HG:** 100°C

**MELTING POINT:** N/A

**FLASH POINT:** >95°C

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 0.9061

**EVAPORATION RATE (BUTYLACETATE=1):** N/A

**FLAMMABLE:** This product is not flammable

**VAPOR PRESSURE:** Not known

**VAPOR DENSITY (AIR=1):** Not known

**SOLUBILITY IN H<sub>2</sub>O:** Insoluble.

**AUTOIGNITION TEMPERATURE:** N/A

**% VOLATILES BY VOL:** None

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY DATA

GENERAL INFORMATION: Stable under recommended storage conditions.

CORROSIVE: ☒ YES ☐ NO

STABILITY: ☒ stable ☐ unstable

INCOMPATIBILITY (materials to avoid): N/A

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: N/A

HAZARDOUS POLYMERIZATION: N/A

## 11. TOXICOLOGICAL INFORMATION

### SYMPTOMS OF OVEREXPOSURE

INHALATION: None expected.

SKIN CONTACT: Potential mild skin irritation.

SKIN ABSORPTION: None expected.

EYE CONTACT: Causes substantial but temporary eye injury.

INGESTION: None expected.

### EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE: Expected toxicity none to slight.

CHRONIC OVEREXPOSURE: Expected toxicity none.

### SUSPECTED CANCER AGENT?

☒ NO: This product's ingredients are not found in the lists below.

☐ YES: ☐ Federal OSHA ☐ NTP ☐ IARC ☐ Cal/OSHA ☐ Prop 65

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: No known significant effects or critical hazards.

## 13. DISPOSAL PROCEDURES

**WASTE DISPOSAL METHOD:** Follow all applicable Federal, State and local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**CAUTION:** Do not contaminate soil, surface water, drains, sewers or ditches with product or used containers.

## 14. TRANSPORT INFORMATION

D.O.T.: Not D.O.T. Regulated.

IATA CLASSIFICATIONS: Substances Not Regulated.

IATA HAZARD CLASS/DIVISION: Substances Not regulated

PACKING MATERIALS: HDPE Containers

## 15. REGULATORY INFORMATION

EPA REG. NO.: 51517-9

ORGANIC CERTIFICATION: Yes – Organic Materials Review Institute (OMRI)

PROPOSITION 65 (CA): N/A.

SARA TITLE III, SECTION 313 TOXIC CHEMICALS: None.

## 16. OTHER INFORMATION

All information, recommendations and suggestions appearing herein concerning our products are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use, the results to be obtained, or the safety and toxicity of the product; nor do we assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

®SUPPRESS is a registered trademark of Westbridge Agricultural Products.

PREPARED BY: Ivonne Sanchez, Regulatory/R&D Coordinator at Westbridge Agricultural Products

PREPARED DATE: November 25, 2013 REV. DATE: September 25, 2014 IS

# **FIESTA<sup>®</sup>**

## **TURF WEED KILLER**



**Rainfast in 3 hours • See results in hours**

**Can re-seed turf 1 day after applying • Controls weeds and moss in turf**

**People and pets can enter treated area when spray dries**

**One gallon of concentrate will treat up to 10000 ft<sup>2</sup> (5000 ft<sup>2</sup> in California)**

**Active Ingredient:**

Iron HEDTA (FeHEDTA)

26.52%

**Other Ingredients:**

73.48%

**Total:**

100.00%

EPA Reg. No. 67702-26 EPA Est. No. 48813-IL-1

NET CONTENTS: 2.5 GALLONS

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

**FIRST AID**

**IF IN  
EYES**

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 poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergency information call the poison control center at 1-800-222-1222.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC**

**ANIMALS. CAUTION:** Causes slight eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read and follow all applicable directions and precautions on this label before using.

**Registrant: W. Neudorff GmbH KG**

An der Mühle 3 · 31860 Emmerthal · Germany  
Phone: 250-652-5888 · [www.neudorffpro.com](http://www.neudorffpro.com)

**SEE INSIDE PANELS FOR ADDITIONAL DIRECTIONS FOR  
USE, STORAGE AND DISPOSAL AND USE PRECAUTIONS**

**SITES:** Lawns, turf (use on rights of way or non-crop areas), golf courses, parks, playgrounds, cemeteries, athletic fields

**Use Precautions:** Do not apply to drought stressed grass; ensure turf is well watered prior to application. Do not apply when the daytime temperature will exceed 85°F. Do not apply to bentgrass. If unsure of grass sensitivity, test spray a small area of the turf. Do not apply to newly seeded areas prior to grass seed germination. Avoid spraying desirable plants. Any desirable plants or structures accidentally contacted should be rinsed with water. To avoid staining, wait until treated area dries before re-entry. Do not apply if rainfall is expected within 3 hours of application. Do not irrigate within 3 hours of application. Do not apply to the same area more than 4 times a year.

**PESTS:** Controls or suppresses weeds such as but not limited to: Black medic (*Medicago lupulina*)<sup>§</sup>, Broadleaf plantain (*Plantago major*)<sup>\*</sup>, Bull thistle (*Cirsium vulgare*), Canada thistle (*Cirsium arvense*)<sup>\*</sup>, Common chickweed (*Stellaria media*)<sup>§‡</sup>, Creeping buttercup (*Ranunculus repens*), Creeping Charlie/Ground ivy (*Glechoma hederacea*)<sup>\*</sup>, Dandelion (*Taraxicum officinale*), Dovefoot geranium (*Geranium molle*)<sup>\*</sup>, English daisy (*Bellis perennis*)<sup>§</sup>, False dandelion (*Hypochoeris radicata*)<sup>\*</sup>, Healall (*Prunella vulgaris*)<sup>\*</sup>, Lawn burweed (*Soliva ptero-sperma*)<sup>\*</sup>, Narrow-leaved plantain (*Plantago lanceolata*)<sup>\*</sup>, Oxalis (*Oxalis spp.*)<sup>\*</sup>, Prostrate knotweed (*Polygonum aviculare*)<sup>\*</sup>, Shepherd's-purse (*Capsella bursa-pastoris*)<sup>\*</sup>, Silverweed cinquefoil (*Potentilla anserina*)<sup>\*</sup>, Speedwell spp. (including Persian Speedwell (*Veronica persica*) and Slender speedwell (*Veronica filiformis*)<sup>\*</sup>, White clover (*Trifolium repens*), Wild chamomile (*Matricaria chamomilla*)<sup>\*</sup>, Wild geranium (*Geranium robertianum*)<sup>\*</sup>, moss, algae<sup>\*</sup>, lichens<sup>\*</sup>, liverworts<sup>\*</sup>.

Controls or suppresses weeds such as but not limited to: Dollar Spot<sup>\*</sup>, Rust<sup>\*</sup>, Snow Mold<sup>\*</sup>

\* Not for use in California

§ Only approved for suppression in California

‡ Minimum application rate in California is 11.5 fl. oz./yd<sup>2</sup> or 9.8 ga/1000 sq.ft

## Application Directions:

Shake well before using. Mix one part Fiesta Turf Weed Killer with 24 parts water (5 oz. in 1 gallon of water). Apply the mixed solution at a rate of 2.5-10 gallons/1000 ft<sup>2</sup> (2.8-11.5 fluid oz./yard<sup>2</sup>), or 4.9-10 gallons/1000 ft<sup>2</sup> (5.7-11.5 fl.oz./yd<sup>2</sup>) in California.

The standard rate for Fiesta Turf Weed Killer is 5.75 fl. oz./yard<sup>2</sup>; use the higher rate (11.5 fl. oz./yard<sup>2</sup>) on tough perennial weeds, such as common chickweed<sup>§</sup>, buttercup and broad-leaved plantain<sup>\*</sup>. Fiesta Turf Weed Killer may also be used at 2.8 fl.oz./yard<sup>2</sup> (2.5 gallons/1000ft<sup>2</sup>)<sup>†</sup> on moss, slender speedwell<sup>†</sup>, wild geranium<sup>\*</sup>, lawn diseases<sup>\*</sup> (such as dollar spot, rust, and snow mold), or on weed seedlings of false dandelion<sup>\*</sup>, English daisy<sup>\*</sup>, dandelion<sup>\*</sup> or white clover<sup>\*</sup>.

† Lower application rate not for use in California. Minimum application rate in California is 5.7 fl. oz./yd<sup>2</sup> or 4.9 ga/1000 sq.ft.

\* Not for use in California

§ only approved for suppression in California

Any standard hand-held or backpack sprayer can be used. Thoroughly spray weeds. Use a coarse nozzle setting to reduce drift. Minimum coverage is important. Repeat treatment in 3 to 4 weeks for best results.

For spot treatment: Shake well before using. Mix one part Fiesta Turf Weed Killer with 24 parts water (5 oz. in 1 gallon of water). Thoroughly spray weeds to point of runoff using any standard hand-held or backpack sprayer. Use a coarse nozzle setting to reduce drift. Repeat treatment in 3 to 4 weeks for best results.

For pre-emergent control<sup>†</sup> of broadleaf weeds and crabgrass: Begin application when soil temperatures reach 50 to 55°F. Shake well before using. Mix one part Fiesta Turf Weed Killer with 24 parts water (5 fl. oz. in 1 gallon of water). Apply 5 to 10 gallons of spray solution per 1,000 sq. ft. depending on weed pressure. Reapply 3 to 6 weeks later for best results. \*Not for use in California

**What will I see?** Works quickly; dying weeds will be seen within hours of application. Treated weeds, moss or algae\* will turn brown or black. Occasionally a darkening of the grass leaf blades can occur after treatment; however the grass will recover within a few days to weeks. May stain thatch (dead grass under turf); this does not affect the health of the grass. \*Not for use in California

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a secure place, away from open fire or flame. Keep container closed and reseal after use. If spilled, use absorbent materials and dispose of in an approved manner.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available.

## FIRST AID

<b>IF IN EYES</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 poison control center or doctor for treatment advice.
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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergency information call the poison control center at 1-800-222-1222.

**NOTICE TO BUYER:** Seller warrants that this product conforms to the chemical description on this label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. To the extent consistent with applicable law, this warranty does not extend to use of this product contrary to label directions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller. To the extent consistent with applicable law, the Seller shall not be liable for any such use. To the extent consistent with applicable law, the Seller makes no other warranties, either expressed or implied.

**FIESTA® TURF WEED KILLER**

**Registrant: W. Neudorff GmbH KG**  
An der Mühle 3 · 31860 Emmerthal · Germany  
Phone: 250-652-5888 · [www.neudorffpro.com](http://www.neudorffpro.com)  
Patent #6,972,273

**EPA Reg. No. 67702-26**

**EPA Est. No. 488813-IL-I**

**NET CONTENTS: 2.5 GALLONS**

### Active Ingredient:

Iron HEDTA (FeHEDTA)

### Other Ingredients:

**Total:**

26.52%
73.48%
100.00%

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**



# Safety Data Sheet



## Specticle® Herbicide

Version 1 / AUS  
102000023686

Revision Date: 18.06.2020  
Print Date: 18.06.2020

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Trade name** Specticle® Herbicide  
**Product code (UVP)** 79930208

#### 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](http://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 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

Hazard label for supply/use required.

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

# Safety Data Sheet



## Specticle® Herbicide

Version 1 / AUS  
102000023686

Revision Date: 18.06.2020  
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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.  
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 200 g/L  
Suspension concentrate (=flowable concentrate)(SC)

Chemical name	CAS-No.	Concentration [%]
Indaziflam	950782-86-2	19.05
Ethoxylated polyarylphenol	99734-09-5	>= 1.00 - <= 25.00
1,2-Benzisothiazol-3(2H)-one	2634-33-5	>= 0.005 - <= 0.05
1,2-Propanediol	57-55-6	>= 5.00 - <= 10.00
Other ingredients (non-hazardous) to 100%		

## SECTION 4. FIRST AID MEASURES

**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

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



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<b>Inhalation</b>	Move to fresh air. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice. 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>	Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

### 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.

**Unsuitable** High volume water jet

**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.  
  
Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Hazchem Code** •3Z



## Specticle® Herbicide

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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 frost. 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/m <sup>3</sup> (TWA)		OES BCS*
1,2-Propanediol (Particulate.)	57-55-6	10 mg/m <sup>3</sup> (TWA)	12 2011	AU NOEL
1,2-Propanediol	57-55-6	474 mg/m <sup>3</sup> /150 ppm	12 2011	AU NOEL

# Safety Data Sheet



## Specticle® Herbicide

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102000023686

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(Total vapour and particulates.)		(TWA)		
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\*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.

#### General protective measures

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply.

#### Engineering Controls

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Form** suspension  
**Colour** white

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<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	6.0 - 9.0 (1 %) (23 °C) (deionized water)
<b>Melting point/range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash point</b>	> 100 °C No flash point - Determination conducted up to the boiling point.
<b>Flammability</b>	No data available
<b>Auto-ignition temperature</b>	> 500 °C The product is not self-ignitable.
<b>Self-accelarating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Relative vapour density</b>	No data available
<b>Relative density</b>	1.051 (20 °C) 1.044 (40 °C)
<b>Density</b>	ca. 1.05 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	Indaziflam: log Pow: 3.7 (20 °C) (pH 7)
<b>Viscosity, dynamic</b>	30 - 75 mPa.s (20 °C) Velocity gradient 100 /s 80 - 180 mPa.s (20 °C) Velocity gradient 20 /s
<b>Viscosity, kinematic</b>	113 mm <sup>2</sup> /s (20 °C) Shear rate of 20/sec 98 mm <sup>2</sup> /s (40 °C) Shear rate of 20/sec 57 mm <sup>2</sup> /s (20 °C) Shear rate of 100/sec 40 mm <sup>2</sup> /s (40 °C) Shear rate of 100/sec
<b>Surface tension</b>	40.5 mN/m (20 °C) Determined as a 0,1% solution in distilled water (1 g/l). 27.1 mN/m (25 °C) Determined in the undiluted form.
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive 92/69/EEC, A.14 / OECD 113
<b>9.2Other information</b>	Further safety related physical-chemical data are not known.

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### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to 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 decomposition products** No decomposition products expected under normal conditions of use.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute oral toxicity** LD50 (Rat) > 2,000 mg/kg  
Test conducted with a similar formulation.

**Acute inhalation toxicity** LC50 (Rat) >= 3.624 mg/l  
Exposure time: 4 h  
Determined in the form of a respirable aerosol.  
Highest attainable concentration.  
Test conducted with a similar formulation.

**Acute dermal toxicity** LD50 (Rat) > 2,000 mg/kg  
Test conducted with a similar formulation.

**Skin corrosion/irritation** No skin irritation (Rabbit)  
Test conducted with a similar formulation.

**Serious eye damage/eye irritation** Slight irritant effect - does not require labelling. (Rabbit)  
Test conducted with a similar formulation.

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Guinea pig)  
Test conducted with a similar formulation.

#### 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.

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### 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.

### Information on likely routes of exposure

Caution!

Harmful if swallowed, inhaled or absorbed through the skin.

Harmful if inhaled.

Harmful if absorbed through skin.

May cause slight 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  
Test conducted with a similar formulation.

#### Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 149 mg/l  
Exposure time: 48 h

#### Toxicity to aquatic plants

EC50 (Skeletonema costatum) 0.603 mg/l  
Growth rate; Exposure time: 96 h

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NOEC (Skeletonema costatum) 0.125 mg/l

Growth rate; Exposure time: 96 h

EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.750 mg/l

Growth rate; Exposure time: 72 h

EC50 (Lemna gibba (gibbous duckweed)) 0.000712 mg/l

Growth rate; Exposure time: 7 d

### 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 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	<b>3082</b>
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

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### IMDG

UN number	<b>3082</b>
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	<b>3082</b>
Transport hazard class(es)	9
Subsidiary Risk	None
Packaging group	III
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: 64673

### SUSMP classification (Poison Schedule)

Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons)

## SECTION 16. OTHER INFORMATION

**Trademark information** Specticle® 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





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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
OES BCS	OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"
PEAK	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
SKIN_DES	SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.
STEL	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	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 16: Other Information.

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