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

1.1 Product identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Specticle® Herbicide</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Product code (UVP)</th>
<th>79930208</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Use</th>
<th>Herbicide</th>
</tr>
</thead>
</table>

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Bayer CropScience Pty Ltd.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ABN</th>
<th>87 000 226 022</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Level</th>
<th>1, 8 Redfern Road</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>3123</th>
<th>Hawthorn East</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Victoria</th>
<th>Australia</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Telephone</th>
<th>(03) 9248 6888</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Telefax</th>
<th>(03) 9248 6800</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Responsible Department</th>
<th>1800 804 479 Technical Information Service</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Website</th>
<th><a href="http://www.environmentalscience.bayer.com.au">www.environmentalscience.bayer.com.au</a></th>
</tr>
</thead>
</table>

1.4 Emergency telephone no.

<table>
<thead>
<tr>
<th>Emergency telephone no.</th>
<th>1800 033 111 IXOM Operations Pty Ltd</th>
</tr>
</thead>
</table>

### SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

**Australia. GHS Hazardous Chemical Information List (Hazardous Substances Information System (HSIS))**

<table>
<thead>
<tr>
<th>Specific target organ toxicity - repeated exposure: Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>H373</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute aquatic toxicity: Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>H400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chronic aquatic toxicity: Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>H410</td>
</tr>
</tbody>
</table>

2.2 Label elements

Hazard label for supply/use required.

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

Indaziflam

**Signal word:** Warning

**Precautionary statements**

<table>
<thead>
<tr>
<th>P260</th>
<th>Do not breathe mist.</th>
</tr>
</thead>
</table>

| P314 | Get medical advice/ attention if you feel unwell. |
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
Chemical nature Suspension concentrate (=flowable concentrate)(SC)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indaziflam</td>
<td>950782-86-2</td>
<td>19.05</td>
</tr>
<tr>
<td>Ethoxylated polyarylphenol</td>
<td>99734-09-5</td>
<td>&gt;= 1.00 - &lt;= 25.00</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>&gt;= 5.00 - &lt;= 10.00</td>
</tr>
<tr>
<td>Other ingredients (non-hazardous) to 100%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

Inhalation
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.

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
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

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. For personal protection see section 8.

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).

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indaziflam</td>
<td>950782-86-2</td>
<td>0.14 mg/m3 (TWA)</td>
<td></td>
<td>OES BCS*</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>474 mg/m3/150 ppm (TWA)</td>
<td>12 2011</td>
<td>AU NOEL</td>
</tr>
<tr>
<td>(Total vapour and particulates.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>10 mg/m3 (TWA)</td>
<td>12 2011</td>
<td>AU NOEL</td>
</tr>
<tr>
<td>(Particulate.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

8.2 Exposure controls

Personal protective equipment - End user

Respiratory protection
Respiratory protection is not required under anticipated circumstances of exposure. Use respiratory protection for organic vapours.

Hand protection
Impervious gloves

Eye protection
Goggles

Skin and body protection
Long-sleeved shirt and long pants

Engineering Controls

Advice on safe handling
Use only in area provided with appropriate exhaust ventilation. For personal protection see section 8.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Form: suspension
Colour: white
Odour: characteristic
pH: 7.0 - 8.5 at 1 % (23 °C) (deionized water)
Flash point: >100 °C
Density: ca. 1.05 g/cm³ at 20 °C

9.2 Other 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.

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) >= 5,000 mg/kg
Acute inhalation toxicity: LC50 (Rabbit) > 3.624 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. (Guinea pig)
   OECD Test Guideline 406, Buehler test
Assessment mutagenicity

5/9
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 repeated dose toxicity**
Indaziflam caused neurobehavioral effects and/or neuropathological changes in subchronic studies in rats and dogs.

**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., Avoid contact with skin, eyes and clothing., Avoid breathing spray mist.
Harmful if inhaled.
Harmful if absorbed through skin.
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 aquatic invertebrates
EC50 (Daphnia magna (Water flea)) 149 mg/l
Exposure time: 48 h
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

Metal drums and plastic containers:
Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

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
- 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

Hazardous Classification
Hazardous (National Occupational Health and Safety Commission - NOHSC)

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.

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.

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