

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

1/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** SPECTICLE® FLO HERBICIDE  
**Product code (UVP)** 80193424, 85850822  
**SDS Number** 102000025126  
**EPA Registration No.** 432-1608

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

**Use** Herbicide  
**Restrictions on use** See product label for restrictions.  
**Information on supplier**  
**Supplier** Bayer Environmental Science  
A division of Bayer CropScience LP  
500 Centregreen Way, Suite 400  
Cary, NC 27513  
USA  
**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com  
**Emergency telephone no.**  
**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577  
**Product Information Telephone Number** 1-800-331-2867

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Inhalation): Category 4  
Specific target organ toxicity - repeated exposure: Category 2  
Specific target organ toxicity - single exposure: Category 2

#### Labelling in accordance with regulation HCS 29CFR §1910.1200



**Signal word:** Warning

**Hazard statements**

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

2/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

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

### Precautionary statements

Do not breathe spray.  
Use only outdoors or in a well-ventilated area.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.  
Store locked up.  
Dispose of contents/container in accordance with local regulation.

### Hazards Not Otherwise Classified (HNOC)

No health hazards not otherwise classified.  
No physical hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name | CAS-No.     | Concentration % by weight |
|--------------------------|-------------|---------------------------|
| Indaziflam               | 950782-86-2 | 7.4                       |

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

|                       |   |
|-----------------------|---|
| <b>General advice</b> | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.  |
| <b>Inhalation</b>     | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.  |
| <b>Skin contact</b>   | Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.   |
| <b>Eye contact</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 physician or poison control center immediately.   |
| <b>Ingestion</b>      | Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended. |

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

3/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

---

### Most important symptoms and effects, both acute and delayed

|   |  |
|---|--|
| <b>Symptoms</b>   | To date no symptoms are known.   |
| <b>Indication of any immediate medical attention and special treatment needed</b> |  |
| <b>Treatment</b>  | Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. |

---

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

|                   |  |
|-------------------|--|
| <b>Suitable</b>   | Water spray, Foam, Carbon dioxide (CO <sub>2</sub> ), Dry chemical |
| <b>Unsuitable</b> | High volume water jet  |

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

### Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** No data available

**Auto-ignition temperature** No data available

**Lower explosion limit** No data available

**Upper explosion limit** No data available

**Explosivity** Not applicable

---

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

4/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

#### 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). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

**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

#### Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

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

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

| Components | CAS-No. | Control parameters | Update | Basis |
|------------|---------|--------------------|--------|-------|
|------------|---------|--------------------|--------|-------|

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

5/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

|            |             |                                 |  |          |
|------------|-------------|---------------------------------|--|----------|
| Indaziflam | 950782-86-2 | 0.56 mg/m <sup>3</sup><br>(TWA) |  | OES BCS* |
|------------|-------------|---------------------------------|--|----------|

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

### Exposure controls

#### Personal protective equipment

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

|                                    |  |
|------------------------------------|--|
| <b>Respiratory protection</b>      | When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations. |
| <b>Hand protection</b>             | Chemical resistant nitrile rubber gloves   |
| <b>Eye protection</b>              | Tightly fitting safety goggles   |
| <b>Skin and body protection</b>    | Wear long-sleeved shirt and long pants and shoes plus socks.   |
| <b>General protective measures</b> | Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.<br>Keep and wash PPE separately from other laundry.                  |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |  |
|----------------------------------|--|
| <b>Appearance</b>                | white to beige                             |
| <b>Physical State</b>            | Liquid                                     |
| <b>Odor</b>                      | characteristic                             |
| <b>Odour Threshold</b>           | No data available                          |
| <b>pH</b>                        | 5.0 - 8.0 (10 %) (23 °C) (deionized water) |
| <b>Viscosity, kinematic</b>      | No data available                          |
| <b>Vapor Pressure</b>            | No data available                          |
| <b>Vapor Density (Air = 1)</b>   | No data available                          |
| <b>Density</b>                   | 1.01 g/cm <sup>3</sup> (20 °C)             |
| <b>Evaporation rate</b>          | No data available                          |
| <b>Boiling Point</b>             | No data available                          |
| <b>Melting / Freezing Point</b>  | No data available                          |
| <b>Water solubility</b>          | soluble                                    |
| <b>Minimum Ignition Energy</b>   | Not applicable                             |
| <b>Decomposition temperature</b> | Stable under normal conditions.            |

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

6/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

---

|   |                       |
|---|-----------------------|
| <b>Self-accelarating decomposition temperature (SADT)</b> | No data available     |
| <b>Partition coefficient: n-octanol/water</b>             | No data available     |
| <b>Viscosity</b>  | 300 - 900 cps (25 °C) |
| <b>Flammability</b>                                       | No data available     |
| <b>Flash point</b>  | No data available     |
| <b>Auto-ignition temperature</b>                          | No data available     |
| <b>Lower explosion limit</b>                              | No data available     |
| <b>Upper explosion limit</b>                              | No data available     |
| <b>Explosivity</b>  | Not applicable        |
| <b>Particle size</b>                                      | No data available     |

---

### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

|   |  |
|---|--|
| <b>Thermal decomposition</b>              | Stable under normal conditions.                                    |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                       |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.        |
| <b>Conditions to avoid</b>                | Extremes of temperature and direct sunlight.                       |
| <b>Incompatible materials</b>             | No incompatible materials known.                                   |
| <b>Hazardous decomposition products</b>   | No decomposition products expected under normal conditions of use. |

---

### SECTION 11: TOXICOLOGICAL INFORMATION

|                          |  |
|--------------------------|--|
| <b>Exposure routes</b>   | Ingestion, Inhalation, Eye contact, Skin contact |
| <b>Immediate Effects</b> |  |
| <b>Eye</b>               | May cause mild irritation to eyes.               |
| <b>Skin</b>              | May cause mild irritation to the skin.           |

#### Information on toxicological effects

|                            |                                 |
|----------------------------|---------------------------------|
| <b>Acute oral toxicity</b> | LD50 (female Rat) > 5,000 mg/kg |
|----------------------------|---------------------------------|

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

7/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

|  |  |
|--|--|
| <b>Acute inhalation toxicity</b>         | LC50 (male/female combined Rat) > 2.09 mg/l<br>Exposure time: 4 h<br>Determined in the form of liquid aerosol.<br>highest concentration tested     |
| <b>Acute dermal toxicity</b>             | LC50 (male/female combined Rat) > 8.36 mg/l<br>Exposure time: 1 h<br>Determined in the form of liquid aerosol.<br>Extrapolated from the 4 hr LC50. |
| <b>Skin corrosion/irritation</b>         | LD50 (male/female combined Rat) > 5,000 mg/kg  |
| <b>Serious eye damage/eye irritation</b> | Slight irritant effect - does not require labelling. (Rabbit)  |
| <b>Respiratory or skin sensitisation</b> | Minimally irritating. (Rabbit)   |
| <b>Respiratory or skin sensitisation</b> | Skin: Non-sensitizing. (Guinea pig)  |

### 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.

### ACGIH

None.

### NTP

None.

### IARC

None.

### OSHA

None.

### Assessment toxicity to reproduction

Indaziflam was not a primary reproductive toxicant in a two-generation study in rats.

### Assessment developmental toxicity

Indaziflam did not cause developmental toxicity in rats and rabbits.

### Aspiration hazard

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

8/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

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

### Further information

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

## SECTION 12: ECOLOGICAL INFORMATION

|  |   |
|--|---|
| <b>Toxicity to fish</b>                  | LC50 (Oncorhynchus mykiss (rainbow trout)) 0.572 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient indaziflam.  |
| <b>Toxicity to aquatic invertebrates</b> | EC50 (Daphnia magna (Water flea)) > 9.88 mg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient indaziflam.  |
| <b>Toxicity to aquatic plants</b>        | IC50 (Raphidocelis subcapitata (freshwater green alga)) 0.134 mg/l<br>Growth rate; Exposure time: 96 h<br>The value mentioned relates to the active ingredient indaziflam.  |
| <b>Biodegradability</b>                  | Indaziflam:<br>Not rapidly biodegradable  |
| <b>Koc</b>                               | Indaziflam: Koc: 496  |
| <b>Bioaccumulation</b>                   | Indaziflam: Bioconcentration factor (BCF) 66<br>Does not bioaccumulate.   |
| <b>Mobility in soil</b>                  | Indaziflam: Moderately mobile in soils  |
| <b>Environmental precautions</b>         | Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.<br>Do not allow to get into surface water, drains and ground water.<br>Do not apply when weather conditions favor runoff or drift.<br>Drift or runoff from treated areas may adversely affect non-target plants.<br>Apply this product as specified on the label. |

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |  |
|-------------------------------|--|
| <b>Product</b>                | Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.<br>Dispose in accordance with all local, state/provincial and federal regulations. |
| <b>Contaminated packaging</b> | Do not re-use empty containers.<br>Triple rinse containers.  |



# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

9/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

Puncture container to avoid re-use.  
Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.  
If burned, stay out of smoke.  
Follow advice on product label and/or leaflet.

### RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

---

## SECTION 14: TRANSPORT INFORMATION

**49CFR** Not dangerous goods / not hazardous material

### IMDG

UN number **3082**  
Class 9  
Packaging group III  
Marine pollutant YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION)

### IATA

UN number **3082**  
Class 9  
Packaging group III  
Environm. Hazardous Mark YES  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (INDAZIFLAM SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than poison; HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT

---

## SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-1608

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

10/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

### US Federal Regulations

#### TSCA list

Water 7732-18-5  
1,2-Propanediol 57-55-6

#### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

#### SARA Title III - Section 302 - Notification and Information

Not applicable.

#### SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

### US States Regulatory Reporting

#### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

### US State Right-To-Know Ingredients

1,2-Propanediol 57-55-6 MN, RI

None.

---

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

|         |   |
|---------|---|
| 49CFR   | Code of Federal Regulations, Title 49                                 |
| ACGIH   | US. ACGIH Threshold Limit Values                                      |
| ATE     | Acute toxicity estimate   |
| CAS-Nr. | Chemical Abstracts Service number                                     |
| CERCLA  | Comprehensive Environmental Response, Compensation, and Liability Act |
| EINECS  | European inventory of existing commercial substances                  |
| ELINCS  | European list of notified chemical substances                         |
| IARC    | International Agency for Research on Cancer                           |
| IATA    | International Air Transport Association                               |
| IMDG    | International Maritime Dangerous Goods                                |
| N.O.S.  | Not otherwise specified   |
| NTP     | US. National Toxicology Program (NTP) Report on Carcinogens           |
| OECD    | Organization for Economic Co-operation and Development                |
| TDG     | Transportation of Dangerous Goods                                     |
| TWA     | Time weighted average   |
| UN      | United Nations  |
| WHO     | World health organisation   |

# SAFETY DATA SHEET



## SPECTICLE® FLO HERBICIDE

Version 3.0 / USA  
102000025126

11/11  
Revision Date: 05/21/2020  
Print Date: 05/23/2020

---

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

Health - 2      Flammability - 1      Instability - 0      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 8: Exposure Controls / Personal Protection. Section 11: Toxicological Information. Reviewed and updated for general editorial purposes.

**Revision Date:** 05/21/2020

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.