

# SAFETY DATA SHEET



## DIFLEXX® HERBICIDE

Version 4.0 / USA  
102000028522

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Revision Date: 04/05/2024  
Print Date: 04/06/2024

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

#### Product identifier

|                      |                    |
|----------------------|--------------------|
| Trade name           | DIFLEXX® HERBICIDE |
| Product code (UVP)   | 80852991           |
| SDS Number           | 102000028522       |
| EPA Registration No. | 264-1173           |

#### 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 CropScience LP<br>800 North Lindbergh Blvd.<br>St. Louis, MO 63167<br>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      | 1-866-99BAYER (1-866-992-2937) |

### SECTION 2: HAZARDS IDENTIFICATION

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

Eye irritation: Category 2B

**Signal word:** Warning

#### Hazard statements

Causes eye irritation.

#### Precautionary statements

Wash thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

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### Hazards Not Otherwise Classified (HNOC)

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component Name   | CAS-No.     | Concentration % by weight |
|--|-------------|---------------------------|
| Dicamba  | 1918-00-9   | 38.4                      |
| Cyprosulfamide   | 221667-31-8 | 2.1                       |
| Diglycolamine  | 929-06-6    | 18 – 25                   |
| p-Toluenesulphonic acid (containing a maximum of 1% H <sub>2</sub> SO <sub>4</sub> ) | 104-15-4    | 3 – 8                     |
| Tristyrylphenol polyethylenglycol phosphoric acid ester                              | 114535-82-9 | 1 – 8                     |
| Alkyl polysaccharide   | 68515-73-1  | 1 – 5                     |

The specific chemical identity and/or concentration range is being withheld because it is trade secret information.

## 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. |

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

**Symptoms** To date no symptoms are known.

### Indication of any immediate medical attention and special treatment needed

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

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

**Unsuitable** 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** In the event of fire and/or explosion do not breathe fumes. 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.

#### Specific hazards from the substance or mixture which can increase the fire

**Flash point** > 106 °C / > 222.8 °F

**Auto-ignition temperature** 400 °C / 752 °F

**Lower explosion limit** No data available

**Upper explosion limit** No data available

**Explosivity** Not explosive  
92/69/EEC, A.14 / OECD 113

### 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.

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|                                    |   |
|------------------------------------|---|
| <b>Additional advice</b>           | 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. |
| <b>Reference to other sections</b> | Information regarding safe handling, see section 7.<br>Information regarding personal protective equipment, see section 8.<br>Information regarding waste disposal, see section 13.       |

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

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

**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. 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. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| Components     | CAS-No.     | Control parameters            | Update | Basis    |
|----------------|-------------|-------------------------------|--------|----------|
| Cyprosulfamide | 221667-31-8 | 10 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.

#### Respiratory protection

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.

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|                                    |   |
|------------------------------------|---|
| <b>Hand protection</b>             | Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)   |
| <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. |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|   |  |
|---|--|
| <b>Form</b>   | suspension   |
| <b>Colour</b>   | light beige  |
| <b>Odour</b>  | slightly acidic  |
| <b>Odour Threshold</b>                                    | No data available                                      |
| <b>pH</b>   | 4.5 - 5.3 (100 %) (23 °C)                              |
| <b>Melting point/range</b>                                | No data available                                      |
| <b>Boiling point/boiling range</b>                        | 106 °C / 222.8 °F                                      |
| <b>Flash point</b>  | > 106 °C / > 222.8 °F                                  |
| <b>Flammability</b>                                       | No data available                                      |
| <b>Auto-ignition temperature</b>                          | 400 °C / 752 °F  |
| <b>Thermal decomposition</b>                              | 60 °C To avoid thermal decomposition, do not overheat. |
| <b>Minimum ignition energy</b>                            | Not applicable   |
| <b>Self-accelerating 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>                                   | No data available                                      |
| <b>Density</b>  | 1.25 g/cm <sup>3</sup> (20 °C)                         |
| <b>Water solubility</b>                                   | dispersible  |

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|   |  |
|---|--|
| <b>Partition coefficient: n-octanol/water</b> | Dicamba: log Pow: -1.8<br>Cyprosulfamide: log Pow: -0.8      |
| <b>Viscosity, dynamic</b>                     | No data available  |
| <b>Viscosity, kinematic</b>                   | No data available  |
| <b>Oxidizing properties</b>                   | No data available  |
| <b>Explosivity</b>                            | Not explosive<br>92/69/EEC, A.14 / OECD 113                  |
| <b>Other information</b>                      | Further safety related physical-chemical data are not known. |

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### SECTION 10: STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Reactivity</b>                         | Stable under normal conditions.  |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.   |
| <b>Possibility of hazardous reactions</b> | No hazardous reactions when stored and handled according to prescribed instructions. |
| <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.                   |

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### SECTION 11: TOXICOLOGICAL INFORMATION

|   |   |
|---|---|
| <b>Exposure routes</b>                      | Eye contact, Skin contact, Ingestion, Inhalation  |
| <b>Immediate Effects</b>                    |   |
| <b>Eye</b>                                  | May cause temporary eye irritation.   |
| <b>Skin</b>                                 | May be harmful in contact with skin.  |
| <b>Ingestion</b>                            | May be harmful if swallowed.  |
| <b>Inhalation</b>                           | Not expected to produce significant adverse effects when recommended use instructions are followed. |
| <b>Information on toxicological effects</b> |   |
| <b>Acute oral toxicity</b>                  | LD50 (Rat) > 5,000 mg/kg  |
| <b>Acute inhalation toxicity</b>            | LC50 (Rat) > 5.10 mg/l<br>Exposure time: 4 h  |

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|--|---|
|  | Determined in the form of liquid aerosol. |
| <b>Acute dermal toxicity</b>             | LD50 (Rat) > 5,000 mg/kg                  |
| <b>Skin corrosion/irritation</b>         | slight irritation (Rabbit)                |
| <b>Serious eye damage/eye irritation</b> | Moderate eye irritation. (Rabbit)         |
| <b>Respiratory or skin sensitisation</b> | Skin: Non-sensitizing. (Guinea pig)       |

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

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

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

Dicamba did not cause specific target organ toxicity in experimental animal studies.  
Cyprosulfamide did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Dicamba was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Cyprosulfamide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Dicamba was not carcinogenic in lifetime feeding studies in rats and mice.  
Cyprosulfamide caused at high dose levels an increased incidence of tumours in the following organ(s): urinary bladder, Kidney. The tumours seen with Cyprosulfamide were caused through the chronic irritation due to the presence of bladder stones. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

### ACGIH

None.

### NTP

None.

### IARC

None.

### Assessment toxicity to reproduction

Dicamba did not cause reproductive toxicity in a two-generation study in rats.  
Cyprosulfamide did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Dicamba did not cause developmental toxicity in rats and rabbits.  
Cyprosulfamide did not cause developmental toxicity in rats and rabbits.

### Aspiration hazard

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

### Further information

Only acute toxicity studies have been performed on the formulated product.

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The non-acute information pertains to the active ingredient(s).  
No further toxicological information is available.

### SECTION 12: ECOLOGICAL INFORMATION

|   |   |
|---|---|
| <b>Biodegradability</b>                   | Dicamba:<br>Not rapidly biodegradable<br>Cyprosulfamide:<br>Not rapidly biodegradable   |
| <b>Koc</b>                                | Dicamba: Koc: 5.1<br>Cyprosulfamide: Koc: 8 - 75  |
| <b>Bioaccumulation</b>                    | Dicamba: Bioconcentration factor (BCF) 15<br>Does not bioaccumulate.<br>Cyprosulfamide:<br>Does not bioaccumulate.  |
| <b>Mobility in soil</b>                   | Dicamba: Highly mobile in soils<br>Cyprosulfamide: Mobile in soils  |
| <b>Results of PBT and vPvB assessment</b> |   |
| <b>PBT and vPvB assessment</b>            | Dicamba: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).<br>Cyprosulfamide: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). |
| <b>Additional ecological information</b>  | No other effects to be mentioned.   |
| <b>Environmental precautions</b>          | Do not allow to get into surface water, drains and ground water.<br>Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash 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.  |

### SECTION 13: DISPOSAL CONSIDERATIONS

|                                |   |
|--------------------------------|---|
| <b>Waste treatment methods</b> |   |
| <b>Product</b>                 | Dispose in accordance with all local, state/provincial and federal regulations.   |
| <b>Contaminated packaging</b>  | Consult state and local regulations regarding the proper disposal of container.<br>Follow advice on product label and/or leaflet. |



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### 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

|                      |  |
|----------------------|--|
| UN number            | 3082   |
| Class                | 9  |
| Packaging group      | III  |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (DICAMBA) |
| RQ                   | Reportable Quantity is reached with 2,604 lb of product.       |

### IMDG

Not dangerous goods / not hazardous material

### IATA

Not dangerous goods / not hazardous material

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 WEED KILLING, N.O.I. other than poison, HAVING A DENSITY OF 20 LBS OR GREATER PER CUBIC FOOT

## SECTION 15: REGULATORY INFORMATION

EPA Registration No. 264-1173

### US Federal Regulations

#### TSCA list

|   |             |
|---|-------------|
| Water   | 7732-18-5   |
| Diglycolamine   | 929-06-6    |
| Tristyrylphenol polyethylenglycol phosphoric acid ester | 114535-82-9 |
| Cyprosulfamide  | 221667-31-8 |
| Alkyl polysaccharide                                    | 68515-73-1  |
| 1,2-Propanediol   | 57-55-6     |

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

Yes. 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

Yes

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### 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

|                 |           |                |
|-----------------|-----------|----------------|
| Dicamba         | 1918-00-9 | CA, CT, IL, NJ |
| Diglycolamine   | 929-06-6  | CT             |
| 1,2-Propanediol | 57-55-6   | MN, RI         |

### Environmental

#### CERCLA

Yes

Dicamba 1918-00-9

### Clean Water Section 307(a)(1)

None.

### Safe Drinking Water Act Maximum Contaminant Levels

None.

### EPA/FIFRA Information:

This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

|                           |   |
|---------------------------|---|
| <b>Signal word:</b>       | Caution!  |
| <b>Hazard statements:</b> | Causes moderate eye irritation.<br>Harmful if swallowed or absorbed through skin. |

## 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   |

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|      |   |
|------|---|
| 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                                   |

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

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

### HMIS (Hazardous Materials Identification System, based on the Fourth 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,  
\* = chronic health hazard

**Reason for Revision:** The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 11: Toxicological Information. Section 15: Regulatory information. Section 16: Other Information. Reviewed and updated for general editorial purposes.

**Revision Date:** 04/05/2024

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

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