

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Kalida Fungicide

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 01/23/2026  |
| 1.2     | 04/09/2026     | 11551386-00003 | Date of first issue: 07/03/2025 |

### SECTION 1. IDENTIFICATION

Product name : Kalida Fungicide  
Product code : UVP: DU00000115 Specification: 102D00000424 EPA Registration No: 101563-374

#### Manufacturer or supplier's details

Company name of supplier : Environmental Science U.S. LLC.  
Address : 5000 Centregreen Way, Suite 400  
Cary NC 27513  
Telephone : 1-800-331-2867  
Emergency telephone : +1 703-741-5970  
E-mail address : uscontact@envu.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Fungicide  
Restrictions on use : For professional users only.

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

#### Hazards for the product as supplied

Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Reproductive toxicity : Category 2

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H302 + H332 Harmful if swallowed or if inhaled.  
H361d Suspected of damaging the unborn child.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

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P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

### Response:

P301 + P312 + P330 IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical attention.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name                                                                               | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|---------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------|
| Fluindapyr                                                                                  | 1383809-87-7*     | 20.9                  | -            |
| (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol               | 76674-21-0*       | 20.9                  | -            |
| Propylene glycol                                                                            | 57-55-6*          | $\geq 5 - < 10$       | -            |
| Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether                                   | 9038-95-3*        | $\geq 3 - < 5$        | -            |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, phosphate, potassium salt | 68186-36-7*       | $\geq 1 - < 3$        | -            |
| Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt                      | 68425-94-5*       | $\geq 1 - < 3$        | -            |

\* Indicates that the identifier is a CAS No.

## SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.

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|                                                             |   |                                                                                                                                                                                                              |
|-------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             |   | If breathing is difficult, give oxygen.<br>Get medical attention.                                                                                                                                            |
| In case of skin contact                                     | : | In case of contact, immediately flush skin with plenty of water.<br>Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse. |
| In case of eye contact                                      | : | Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.                                                                                                         |
| If swallowed                                                | : | If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.                                              |
| Most important symptoms and effects, both acute and delayed | : | The following symptoms may occur:<br>Nausea<br>Vomiting<br>Diarrhea<br>visual disturbances<br>Rash<br>Itching<br>hair loss<br>Harmful if swallowed or if inhaled.<br>Suspected of damaging the unborn child. |
| Protection of first-aiders                                  | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).                                  |
| Notes to physician                                          | : | Treat symptomatically.                                                                                                                                                                                       |

### SECTION 5. FIRE-FIGHTING MEASURES

|                                       |   |                                                                                                                                                                                                                                                 |
|---------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media          | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical                                                                                                                                                                   |
| Unsuitable extinguishing media        | : | High volume water jet                                                                                                                                                                                                                           |
| Specific hazards during fire fighting | : | Exposure to combustion products may be a hazard to health.                                                                                                                                                                                      |
| Hazardous combustion products         | : | Carbon oxides<br>Fluorine compounds<br>Nitrogen oxides (NOx)<br>Metal oxides<br>Phosphorus compounds                                                                                                                                            |
| Specific extinguishing methods        | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |

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Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing. Avoid breathing mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment. Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers. Store locked up. Keep tightly closed.

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Materials to avoid : Keep in a cool, well-ventilated place.  
Store in accordance with the particular national regulations.  
: Do not store with the following product types:  
Strong oxidizing agents  
Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components       | CAS-No. | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis   |
|------------------|---------|----------------------------------|------------------------------------------------|---------|
| Propylene glycol | 57-55-6 | TWA                              | 10 mg/m <sup>3</sup>                           | US WEEL |

**Engineering measures** : Minimize workplace exposure concentrations.  
If sufficient ventilation is unavailable, use with local exhaust ventilation.

#### Personal protective equipment

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

#### Hand protection

**Material** : Chemical-resistant gloves

**Remarks** : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

**Eye protection** : Wear the following personal protective equipment:  
Safety glasses

**Skin and body protection** : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

**Hygiene measures** : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.

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When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                  |   |                                                                         |
|--------------------------------------------------|---|-------------------------------------------------------------------------|
| Appearance                                       | : | suspension                                                              |
| Color                                            | : | light brown                                                             |
| Odor                                             | : | very faint                                                              |
| Odor Threshold                                   | : | No data available                                                       |
| pH                                               | : | 6.42 (71.8 °F / 22.1 °C)<br>Concentration: 1 %<br>(as aqueous solution) |
| Melting point/freezing point                     | : | No data available                                                       |
| Initial boiling point and boiling range          | : | No data available                                                       |
| Flash point                                      | : | > 212 °F / > 100 °C                                                     |
| Evaporation rate                                 | : | No data available                                                       |
| Flammability (solid, gas)                        | : | Not applicable                                                          |
| Flammability (liquids)                           | : | No data available                                                       |
| Upper explosion limit / Upper flammability limit | : | No data available                                                       |
| Lower explosion limit / Lower flammability limit | : | No data available                                                       |
| Vapor pressure                                   | : | No data available                                                       |
| Relative vapor density                           | : | No data available                                                       |
| Relative density                                 | : | No data available                                                       |
| Density                                          | : | 1.1470 g/cm <sup>3</sup> (72.9 °F / 22.7 °C)                            |
| Solubility(ies)                                  | : |                                                                         |
| Water solubility                                 | : | dispersible                                                             |
| Partition coefficient: n-octanol/water           | : | Not applicable                                                          |
| Autoignition temperature                         | : | No data available                                                       |
| Decomposition temperature                        | : | No data available                                                       |

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Viscosity  
Viscosity, dynamic : 365 mPa.s (70.7 °F / 21.5 °C)  
Viscosity, kinematic : 365 mm²/s (70.7 °F / 21.5 °C)  
Explosive properties : Not explosive  
Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Particle characteristics  
Particle size : Not applicable

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : Can react with strong oxidizing agents.  
Conditions to avoid : None known.  
Incompatible materials : Oxidizing agents  
Hazardous decomposition products : No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 856.46 mg/kg  
Method: Calculation method  
Acute inhalation toxicity : LC50 (Rat, male and female): > 2.12 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

#### Components:

##### Fluindapyr:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OPPTS 870.1100  
Remarks: The test was conducted according to guideline

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Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPPTS 870.1300  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: The test was conducted according to guideline

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OPPTS 870.1200  
Remarks: The test was conducted according to guideline

### **(RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:**

Acute oral toxicity : LD50 (Mouse, female): 179 mg/kg  
Method: OPPTS 870.1100  
Remarks: The test was conducted according to guideline

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPPTS 870.1300  
Remarks: The test was conducted according to guideline

Acute dermal toxicity : LD50 (Rat): > 1,000 mg/kg  
Method: OPPTS 870.1200  
Remarks: The test was conducted according to guideline

### **Propylene glycol:**

Acute oral toxicity : LD50 (Rat): 22,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 44.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 0.5 - 1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### **Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:**

Acute oral toxicity : LD50 (Rat): > 4,500 mg/kg

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### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Fluindapyr:

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

#### (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

#### Propylene glycol:

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Method  | : OECD Test Guideline 404 |
| Result  | : No skin irritation      |

#### Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, phosphate, potassium salt:

|        |                   |
|--------|-------------------|
| Result | : Skin irritation |
|--------|-------------------|

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Result  | : No eye irritation       |
| Method  | : OECD Test Guideline 405 |

### Components:

#### Fluindapyr:

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

#### (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

#### Propylene glycol:

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Result  | : No eye irritation       |
| Method  | : OECD Test Guideline 405 |

#### Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, phosphate, potassium salt:

|        |                                   |
|--------|-----------------------------------|
| Result | : Irreversible effects on the eye |
|--------|-----------------------------------|

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### Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Result : Irritation to eyes, reversing within 21 days

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Product:

|                    |                                      |
|--------------------|--------------------------------------|
| Test Type          | : Local lymph node assay (LLNA)      |
| Routes of exposure | : Skin contact                       |
| Species            | : Mouse                              |
| Assessment         | : Does not cause skin sensitization. |
| Method             | : OECD Test Guideline 429            |

#### Components:

##### Fluindapyr:

|                    |                                                 |
|--------------------|-------------------------------------------------|
| Test Type          | : Local lymph node assay (LLNA)                 |
| Routes of exposure | : Skin contact                                  |
| Species            | : Mouse                                         |
| Method             | : OPPTS 870.2600                                |
| Result             | : positive                                      |
| Remarks            | : The test was conducted according to guideline |

Assessment : Probability or evidence of skin sensitization in humans

### (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

|                    |                                 |
|--------------------|---------------------------------|
| Test Type          | : Local lymph node assay (LLNA) |
| Routes of exposure | : Skin contact                  |
| Species            | : Mouse                         |
| Result             | : negative                      |

##### Propylene glycol:

|                    |                     |
|--------------------|---------------------|
| Test Type          | : Maximization Test |
| Routes of exposure | : Skin contact      |
| Species            | : Guinea pig        |
| Result             | : negative          |

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### Fluindapyr:

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) |
|                       | Method: OPPTS 870.5100                               |
|                       | Result: negative                                     |

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Remarks: The test was conducted according to guideline

Test Type: In vitro mammalian cell gene mutation test

Method: OPPTS 870.5300

Result: negative

Remarks: The test was conducted according to guideline

Test Type: Chromosome aberration test in vitro

Method: OPPTS 870.5375

Result: negative

Remarks: The test was conducted according to guideline

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OPPTS 870.5395  
Result: negative  
Remarks: The test was conducted according to guideline

### **(RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: positive

Test Type: Chromosome aberration test in vitro

Result: negative

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo  
Species: Rat  
Application Route: Ingestion  
Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)

Species: Mouse

Application Route: Ingestion

Result: negative

### **Propylene glycol:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)

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Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### **Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Based on data from similar materials

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Fluindapyr:**

Species : Mouse  
Application Route : Ingestion  
Exposure time : 78 weeks  
Method : OPPTS 870.4200  
Result : negative  
Remarks : The test was conducted according to guideline

#### **(RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2y  
Result : negative

Species : Mouse  
Application Route : Ingestion  
Exposure time : 2y  
Result : negative

#### **Propylene glycol:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

### **IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is

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identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Suspected of damaging the unborn child.

#### Components:

##### **Fluindapyr:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Method: OPPTS 870.3700  
Result: negative  
Remarks: The test was conducted according to guideline

Effects on fetal development : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OPPTS 870.3800  
Result: negative  
Remarks: The test was conducted according to guideline

##### **(RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OPPTS 870.3800  
Result: negative  
Remarks: The test was conducted according to guideline

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Method: OPPTS 870.3700  
Result: positive  
Remarks: The test was conducted according to guideline

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

##### **Propylene glycol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: negative

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Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### **Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

### **STOT-single exposure**

Not classified based on available information.

### **STOT-repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

#### **Components:**

##### **Fluindapyr:**

Species : Dog  
NOAEL : 40 mg/kg  
LOAEL : 200 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Method : OPPTS 870.3100  
Remarks : The test was conducted according to guideline

Species : Rat  
LOAEL : > 0.98 mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 28 Days  
Method : OPPTS 870.6500  
Remarks : The test was conducted according to guideline

##### **(RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:**

Species : Rat, female  
NOAEL : 22 mg/kg  
LOAEL : 145 mg/kg

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Application Route : Ingestion  
Exposure time : 90 Days

Species : Rat  
NOAEL : 1,000 mg/kg  
Application Route : Skin contact  
Exposure time : 28 Days

### Propylene glycol:

Species : Rat, male  
NOAEL :  $\geq 1,700$  mg/kg  
Application Route : Ingestion  
Exposure time : 2 y

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### Fluindapyr:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.121 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.414 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EbC50 (Lemna gibba):  $> 2$  mg/l  
plants Exposure time: 7 d

#### (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 33 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Crassostrea virginica (eastern oyster)): 25 mg/l  
aquatic invertebrates Exposure time: 96 h

Toxicity to algae/aquatic : EbC50 (Scenedesmus subspicatus): 1.9 mg/l  
plants Exposure time: 72 h

Toxicity to fish (Chronic tox- : NOEC (Pimephales promelas (fathead minnow)): 4.8 mg/l  
icity) Exposure time: 33 d

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.31 mg/l  
aquatic invertebrates (Chron- Exposure time: 21 d  
ic toxicity)

#### Propylene glycol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l

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Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l  
Exposure time: 7 d

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l  
Exposure time: 18 h

### **Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL10 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

### **Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, phosphate, potassium salt:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### **Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

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Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): > 1 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### Persistence and degradability

#### Components:

##### **Fluindapyr:**

Biodegradation Simulation Tests : Environmental Compartment: Soil  
Value type: DT50  
Value: 141 - 353 d

##### **(RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:**

Biodegradability : Result: Not readily biodegradable.

Biodegradation Simulation Tests : Environmental Compartment: Soil  
Value type: DT50  
Value: 672 - 3,492 d  
Temperature: 20 °C

##### **Propylene glycol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98.3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d

##### **Poly(oxy-1,2-ethanediyl), $\alpha$ -tridecyl- $\omega$ -hydroxy-, phosphate, potassium salt:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

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Remarks: The test was conducted according to guideline  
Based on data from similar materials

### Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

### Bioaccumulative potential

#### Components:

##### Fluindapyr:

Partition coefficient: n-octanol/water : log Pow: 4.12  
Remarks: Calculation

##### (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 12.2

Partition coefficient: n-octanol/water : log Pow: 2.3

##### Propylene glycol:

Partition coefficient: n-octanol/water : log Pow: -1.07  
Method: Regulation (EC) No. 440/2008, Annex, A.8

### Mobility in soil

#### Components:

##### (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Distribution among environmental compartments : log Koc: 2.14

### Other adverse effects

No data available

### Endocrine disrupting properties

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.  
Do not dispose of waste into sewer.

Contaminated packaging : Follow advice on product label and/or leaflet.  
Empty containers retain residue and can be dangerous.  
Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

|                           |   |                                                                                                                                                    |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number                 | : | UN 3082                                                                                                                                            |
| Proper shipping name      | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Fluindapyr, (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol) |
| Class                     | : | 9                                                                                                                                                  |
| Packing group             | : | III                                                                                                                                                |
| Labels                    | : | 9                                                                                                                                                  |
| Environmentally hazardous | : | yes                                                                                                                                                |

##### IATA-DGR

|                                          |   |                                                                                                                                                    |
|------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------|
| UN/ID No.                                | : | UN 3082                                                                                                                                            |
| Proper shipping name                     | : | Environmentally hazardous substance, liquid, n.o.s.<br>(Fluindapyr, (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol) |
| Class                                    | : | 9                                                                                                                                                  |
| Packing group                            | : | III                                                                                                                                                |
| Labels                                   | : | Miscellaneous                                                                                                                                      |
| Packing instruction (cargo aircraft)     | : | 964                                                                                                                                                |
| Packing instruction (passenger aircraft) | : | 964                                                                                                                                                |

##### IMDG-Code

|                      |   |                                                                                                                                                    |
|----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number            | : | UN 3082                                                                                                                                            |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Fluindapyr, (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol) |
| Class                | : | 9                                                                                                                                                  |
| Packing group        | : | III                                                                                                                                                |
| Labels               | : | 9                                                                                                                                                  |
| EmS Code             | : | F-A, S-F                                                                                                                                           |
| Marine pollutant     | : | yes                                                                                                                                                |

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

|                      |   |                                                                                                                                                    |
|----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------|
| UN/ID/NA number      | : | UN 3082                                                                                                                                            |
| Proper shipping name | : | Environmentally hazardous substance, liquid, n.o.s.<br>(Fluindapyr, (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol) |
| Class                | : | 9                                                                                                                                                  |
| Packing group        | : | III                                                                                                                                                |
| Labels               | : | CLASS 9                                                                                                                                            |
| ERG Code             | : | 171                                                                                                                                                |
| Marine pollutant     | : | yes(Fluindapyr, (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-                                                                                 |

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Remarks : ylmethyl)benzhydryl alcohol)  
: Above applies only to containers over 119 gallons (450 liters) in case of liquids, or 882 lbs. (400 kg) in case of solids. Shipment by ground under DOT is non-regulated for non-bulk packaging; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Reproductive toxicity

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

|                                                                               |              |
|-------------------------------------------------------------------------------|--------------|
| Water                                                                         | 7732-18-5    |
| Fluindapyr                                                                    | 1383809-87-7 |
| (RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol | 76674-21-0   |
| Propylene glycol                                                              | 57-55-6      |
| Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether                     | 9038-95-3    |

Active substance : 20.9 %  
Fluindapyr  
  
20.9 %  
(RS)-2,4'-Difluoro- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol

## SECTION 16. OTHER INFORMATION

### Further information

# SAFETY DATA SHEET

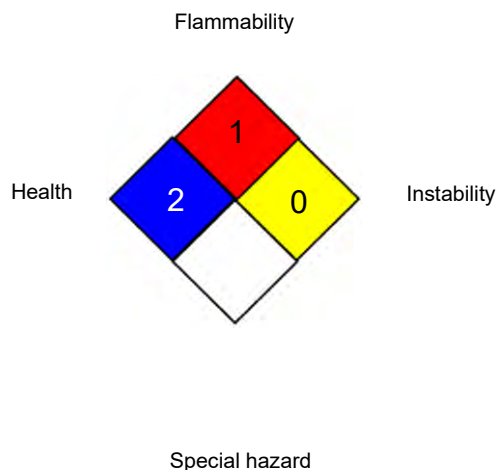
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### NFPA 704:



### HMIS® IV / CED:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 1 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance

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Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 04/09/2026

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8