

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Echelon 4SC Herbicide

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 01/21/2026  |
| 2.2     | 04/09/2026     | 11551387-00004 | Date of first issue: 07/03/2025 |

### SECTION 1. IDENTIFICATION

Product name : Echelon 4SC Herbicide  
Product code : UVP: DU00000154 Specification: 102D00000457 EPA Registration No: 101563-294

#### 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 : Herbicide  
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 (Inhalation) : Category 4  
Skin sensitization : Category 1  
Reproductive toxicity : Category 1B  
Specific target organ toxicity : Category 2 (hematopoietic system)  
- repeated exposure (Oral)  
Specific target organ toxicity : Category 2 (hematopoietic system)  
- repeated exposure (Inhalation)

#### Other hazards

None known.

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H360D May damage the unborn child.  
H373 May cause damage to organs (hematopoietic system)

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through prolonged or repeated exposure if swallowed.  
H373 May cause damage to organs (hematopoietic system)  
through prolonged or repeated exposure if inhaled.

### Precautionary Statements

**Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapors.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
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.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**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 |
|-----------------------------------------------------------------------|-------------------|-----------------------|--------------|
| 2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine     | 29091-21-2*       | 27.3                  | -            |
| Sulfentrazone                                                         | 122836-35-5*      | 13.6                  | -            |
| Glycerine                                                             | 56-81-5*          | >= 5 - < 10           | -            |
| Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs. | 9005-65-6*        | >= 1 - < 3            | -            |

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|                                                                                                 |             |                       |   |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------|---|
| Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 55965-84-9* | $\geq 0.001 - < 0.01$ | - |
|-------------------------------------------------------------------------------------------------|-------------|-----------------------|---|

\* Indicates that the identifier is a CAS No.

### Alternative CAS Numbers for some regions

| Chemical name                                                                                   | Alternative CAS Number(s) |
|-------------------------------------------------------------------------------------------------|---------------------------|
| Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 2682-20-4, 26172-55-4     |

## SECTION 4. FIRST AID MEASURES

|                                                             |                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                              | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.                                                                                                          |
| If inhaled                                                  | : If inhaled, remove to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.<br>Get medical attention.                                                                                                         |
| In case of skin contact                                     | : In case of contact, immediately flush skin with soap and 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.                                                                                                                                                           |
| Most important symptoms and effects, both acute and delayed | : May cause an allergic skin reaction.<br>Harmful if inhaled.<br>May damage the unborn child.<br>May cause damage to organs through prolonged or repeated exposure if swallowed.<br>May cause damage to organs through prolonged or repeated exposure if inhaled. |
| 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 (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing     | : None known.                                                                                |

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media

Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)  
Fluorine compounds  
Chlorine compounds  
Sulfur oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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

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- 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.  
Do not breathe mist or vapors.  
Do not swallow.  
Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
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.  
Keep in a cool, well-ventilated place.  
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

- 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

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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.  
When using do not eat, drink or smoke.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash contaminated clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : yellow

Odor : mild, phenol-like

Odor Threshold : No data available

pH : 6.35  
Concentration: 1 %

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

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|                                        |   |                                                          |
|----------------------------------------|---|----------------------------------------------------------|
| Relative vapor density                 | : | No data available                                        |
| Relative density                       | : | No data available                                        |
| Density                                | : | 1.192 g/cm <sup>3</sup>                                  |
| Solubility(ies)                        | : |                                                          |
| Water solubility                       | : | dispersible                                              |
| Partition coefficient: n-octanol/water | : | Not applicable                                           |
| Autoignition temperature               | : | No data available                                        |
| Decomposition temperature              | : | No data available                                        |
| Viscosity                              | : |                                                          |
| Viscosity, kinematic                   | : | No data available                                        |
| 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 inhaled.

#### **Product:**

|                     |   |                                                                      |
|---------------------|---|----------------------------------------------------------------------|
| Acute oral toxicity | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method |
|---------------------|---|----------------------------------------------------------------------|

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Acute inhalation toxicity : LC50 (Rat): 2.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

### Components:

#### **2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OPPTS 870.1100  
Remarks: The test was conducted according to guideline

Acute inhalation toxicity : LC50 (Rat): > 0.256 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): > 2,000 mg/kg  
Method: OPPTS 870.1200  
Remarks: The test was conducted according to guideline

#### **Sulfentrazone:**

Acute oral toxicity : LD50 (Mouse, female): 701.8 mg/kg  
Method: OPPTS 870.1100  
Remarks: The test was conducted according to guideline

Acute inhalation toxicity : LC50 (Rat): > 5.13 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 (Rabbit): > 2,000 mg/kg  
Method: OPPTS 870.1200  
Remarks: The test was conducted according to guideline

#### **Glycerine:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

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

#### **Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

Acute oral toxicity : LD50 (Mouse): 25,000 mg/kg

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**



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Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.171 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 87.12 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### 2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:

Method : OPPTS 870.2500  
Result : No skin irritation  
Remarks : The test was conducted according to guideline

#### Sulfentrazone:

Species : Rabbit  
Method : OPPTS 870.2500  
Result : No skin irritation  
Remarks : The test was conducted according to guideline

#### Glycerine:

Species : Rabbit  
Result : No skin irritation

#### Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:

Species : Human  
Result : No skin irritation

#### Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

Species : Rabbit  
Result : No eye irritation

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### Components:

#### **Glycerine:**

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

#### **Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

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

#### **Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

|         |   |                                 |
|---------|---|---------------------------------|
| Result  | : | Irreversible effects on the eye |
| Remarks | : | Based on skin corrosivity.      |

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

### Components:

#### **Sulfentrazone:**

|                    |   |                                               |
|--------------------|---|-----------------------------------------------|
| Test Type          | : | Maximization Test                             |
| Routes of exposure | : | Skin contact                                  |
| Species            | : | Guinea pig                                    |
| Method             | : | OPPTS 870.2600                                |
| Result             | : | negative                                      |
| Remarks            | : | The test was conducted according to guideline |

#### **Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

|                    |   |              |
|--------------------|---|--------------|
| Test Type          | : | Buehler Test |
| Routes of exposure | : | Skin contact |
| Species            | : | Guinea pig   |
| Result             | : | positive     |

|            |   |                                                                   |
|------------|---|-------------------------------------------------------------------|
| Assessment | : | Probability or evidence of high skin sensitization rate in humans |
|------------|---|-------------------------------------------------------------------|

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:**

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

### Sulfentrazone:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)

Method: OPPTS 870.5100

Result: negative

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

Genotoxicity in vivo

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

Species: Mouse

Application Route: Intraperitoneal injection

Method: OPPTS 870.5395

Result: negative

Remarks: The test was conducted according to guideline

### Glycerine:

Genotoxicity in vitro

: Test Type: In vitro mammalian cell gene mutation test

Result: negative

Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)

Result: negative

### Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:

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

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Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### Carcinogenicity

Not classified based on available information.

#### Components:

##### **Sulfentrazone:**

Species : Mouse  
Application Route : Ingestion  
Exposure time : 2 Years  
Method : OPPTS 870.4200  
Result : negative  
Remarks : The test was conducted according to guideline

##### **Glycerine:**

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 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

May damage the unborn child.

#### Components:

##### **2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:**

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: Fertility/early embryonic development

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Species: Rat  
Method: OPPTS 870.3700  
Result: negative  
Remarks: The test was conducted according to guideline

### Sulfentrazone:

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

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

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

### Glycerine:

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

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

### Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:

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

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

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

May cause damage to organs (hematopoietic system) through prolonged or repeated exposure if swallowed.

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

### Components:

#### **Sulfentrazone:**

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Routes of exposure | : Ingestion                                                                                        |
| Target Organs      | : hematopoietic system                                                                             |
| Assessment         | : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw. |

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Routes of exposure | : inhalation (dust/mist/fume)                                                                      |
| Target Organs      | : hematopoietic system                                                                             |
| Assessment         | : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw. |

### **Repeated dose toxicity**

### Components:

#### **2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:**

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Species           | : Rat, male                                     |
| NOAEL             | : >= 269 mg/kg                                  |
| Application Route | : Ingestion                                     |
| Exposure time     | : 90 Days                                       |
| Method            | : OPPTS 870.3100                                |
| Remarks           | : The test was conducted according to guideline |

#### **Sulfentrazone:**

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Species           | : Dog, male                                     |
| NOAEL             | : 28 mg/kg                                      |
| LOAEL             | : 57 mg/kg                                      |
| Application Route | : Ingestion                                     |
| Exposure time     | : 90 Days                                       |
| Method            | : OPPTS 870.3150                                |
| Remarks           | : The test was conducted according to guideline |

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Species           | : Rat                                           |
| NOAEL             | : 0.256 mg/kg                                   |
| LOAEL             | : 1.71 mg/kg                                    |
| Application Route | : inhalation (dust/mist/fume)                   |
| Exposure time     | : 26 Days                                       |
| Method            | : OPPTS 870.3465                                |
| Remarks           | : The test was conducted according to guideline |

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Species           | : Rabbit                                        |
| NOAEL             | : >= 1,000 mg/kg                                |
| Application Route | : Skin contact                                  |
| Exposure time     | : 28 Days                                       |
| Method            | : OPPTS 870.3200                                |
| Remarks           | : The test was conducted according to guideline |

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### Glycerine:

|                   |                               |
|-------------------|-------------------------------|
| Species           | : Rat                         |
| NOAEL             | : 0.167 mg/l                  |
| LOAEL             | : 0.622 mg/l                  |
| Application Route | : inhalation (dust/mist/fume) |
| Exposure time     | : 13 Weeks                    |

|                   |                        |
|-------------------|------------------------|
| Species           | : Rat                  |
| NOAEL             | : 8,000 - 10,000 mg/kg |
| Application Route | : Ingestion            |
| Exposure time     | : 2 y                  |

|                   |                |
|-------------------|----------------|
| Species           | : Rabbit       |
| NOAEL             | : 5,040 mg/kg  |
| Application Route | : Skin contact |
| Exposure time     | : 45 Weeks     |

### Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:

|                   |               |
|-------------------|---------------|
| Species           | : Rat         |
| NOAEL             | : > 300 mg/kg |
| Application Route | : Ingestion   |
| Exposure time     | : 28 Days     |

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### 2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:

|                  |                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.013 mg/l<br>Exposure time: 96 h<br>Remarks: No toxicity at the limit of solubility. |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|

|                                                     |                                                                                                                              |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 0.013 mg/l<br>Exposure time: 48 h<br>Remarks: No toxicity at the limit of solubility. |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|

|                                  |                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------|
| Toxicity to algae/aquatic plants | : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.004 mg/l<br>Exposure time: 96 h |
|----------------------------------|--------------------------------------------------------------------------------------------|

|                                     |                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------|
| Toxicity to fish (Chronic toxicity) | : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.012 mg/l<br>Exposure time: 32 d |
|-------------------------------------|---------------------------------------------------------------------------------|

|                                                                        |                                                                         |
|------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 0.0066 mg/l<br>Exposure time: 21 d |
|------------------------------------------------------------------------|-------------------------------------------------------------------------|

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### Sulfentrazone:

- |                                                                        |   |                                                                                                                                                                                                          |
|------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : | LC50 ( <i>Lepomis macrochirus</i> (Bluegill sunfish)): 93.8 mg/l<br>Exposure time: 96 h                                                                                                                  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 ( <i>Daphnia magna</i> (Water flea)): 60.4 mg/l<br>Exposure time: 48 h                                                                                                                              |
| Toxicity to algae/aquatic plants                                       | : | ErC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 0.033 mg/l<br>Exposure time: 120 h<br><br>NOEC ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 0.03 mg/l<br>Exposure time: 120 h |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 2.95 mg/l<br>Exposure time: 99 d                                                                                                                     |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC ( <i>Daphnia magna</i> (Water flea)): 0.2 mg/l<br>Exposure time: 21 d                                                                                                                               |

### Glycerine:

- |                                                     |   |                                                                                                       |
|-----------------------------------------------------|---|-------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 54,000 mg/l<br>Exposure time: 96 h                |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 ( <i>Daphnia magna</i> (Water flea)): 1,955 mg/l<br>Exposure time: 48 h                          |
| Toxicity to microorganisms                          | : | NOEC ( <i>Pseudomonas putida</i> ): > 10,000 mg/l<br>Exposure time: 16 h<br>Method: DIN 38 412 Part 8 |

### Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:

#### Ecotoxicology Assessment

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

### Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

- |                                                     |   |                                                                                                                                                                                          |
|-----------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 0.19 mg/l<br>Exposure time: 96 h                                                                                                     |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 ( <i>Daphnia magna</i> (Water flea)): 0.16 mg/l<br>Exposure time: 48 h                                                                                                              |
| Toxicity to algae/aquatic plants                    | : | ErC50 ( <i>Skeletonema costatum</i> (marine diatom)): 0.0052 mg/l<br>Exposure time: 48 h<br><br>NOEC ( <i>Skeletonema costatum</i> (marine diatom)): 0.00049 mg/l<br>Exposure time: 48 h |



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Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.02 mg/l  
Exposure time: 36 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.10 mg/l  
Exposure time: 21 d

### Persistence and degradability

#### Components:

##### **Sulfentrazone:**

Biodegradation Simulation Tests : Environmental Compartment: Soil  
Value type: DT50  
Value: 400 d

##### **Glycerine:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 92 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D

##### **Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs.:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 52 %  
Method: OECD Test Guideline 301C

##### **Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 62 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Components:

##### **2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1,400

Partition coefficient: n-octanol/water : log Pow: 4.1

##### **Sulfentrazone:**

Partition coefficient: n-octanol/water : log Pow: 0.99

##### **Glycerine:**

Partition coefficient: n-octanol/water : log Pow: -1.75

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octanol/water

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Partition coefficient: n- : log Pow: < 1  
octanol/water

**Mobility in soil**

### Components:

**2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine:**

Distribution among environ- : log Koc: 3.71  
mental compartments

**Sulfentrazone:**

Distribution among environ- : log Koc: 1.63  
mental compartments

**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.<br>Do not dispose of waste into sewer. |
| Contaminated packaging | : | Follow advice on product label and/or leaflet.<br>Empty containers retain residue and can be dangerous.<br>Do not re-use empty containers.                                                                                                    |

## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

|                           |   |                                                                                                                                                                                                               |
|---------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN number                 | : | UN 3082                                                                                                                                                                                                       |
| Proper shipping name      | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), Sulfentrazone) |
| Class                     | : | 9                                                                                                                                                                                                             |
| Packing group             | : | III                                                                                                                                                                                                           |
| Labels                    | : | 9                                                                                                                                                                                                             |
| Environmentally hazardous | : | yes                                                                                                                                                                                                           |

#### **IATA-DGR**

|           |   |         |
|-----------|---|---------|
| UN/ID No. | : | UN 3082 |
|-----------|---|---------|

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Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1), Sulfentrazone)

Class : 9

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1), Sulfentrazone, 2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine)

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.  
(Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1), Sulfentrazone)

Class : 9

Packing group : III

Labels : CLASS 9

ERG Code : 171

Marine pollutant : yes(2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine, Sulfentrazone)

Remarks : 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.

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### 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

Listed substances in the product are at low enough levels to not be expected to exceed the 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)  
Respiratory or skin sensitization  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)

**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   |
| 2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine | 29091-21-2  |
| Sulfentrazone                                                     | 122836-35-5 |
| Glycerine                                                         | 56-81-5     |

##### California Prop. 65

WARNING: This product can expose you to chemicals including Ethylene oxide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). **California Permissible Exposure Limits for Chemical Contaminants**

|                  |                                                                                |
|------------------|--------------------------------------------------------------------------------|
| Glycerine        | 56-81-5                                                                        |
| Active substance | : 328 g/l<br>2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine |
|                  | 163 g/l<br>Sulfentrazone                                                       |

### SECTION 16. OTHER INFORMATION

#### Further information

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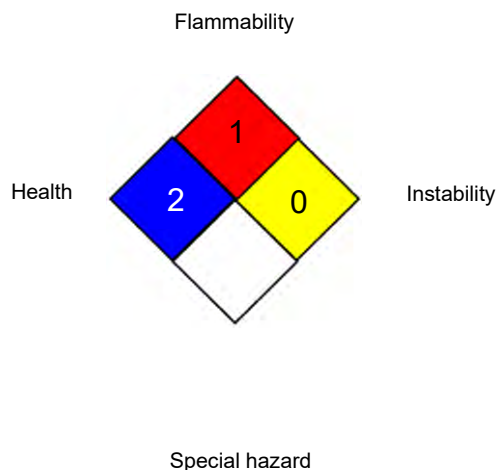
Version  
2.2

Revision Date:  
04/09/2026

SDS Number:  
11551387-00004

Date of last issue: 01/21/2026  
Date of first issue: 07/03/2025

### NFPA 704:



### HMIS® IV / CED:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 2 |
| 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

AIIIC - 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 Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act

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(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.

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