

Issuing Date 26-Oct-2022

Revision Date 26-Oct-2022

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Willowood Sulfen Chlorim

### Other means of identification

**Product Code(s)** 87290-83**Synonyms** None

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

**Recommended use** Herbicide**Restrictions on use** Use only as directed on product label

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Generic Crop Science, LLC  
1887 Whitney Mesa Drive #9740  
Henderson, NV 89014-2069  
1-844-200-FARM (3276)**E-mail** regulatory@genericcropscience.com

### Emergency telephone number

**Emergency telephone** CHEMTREC: +1-703-527-3887 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)  
24/7 Health Emergencies: Call 800-858-7378 (National Pesticide Information Center)

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

|  |            |
|--|------------|
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4 |
| Serious eye damage/eye irritation                  | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

### Hazards not otherwise classified (HNOC)

Not applicable.

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if inhaled.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area.

Wear eye protection/ face protection.

Do not breathe dust.

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a doctor if you feel unwell.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other information**

May be harmful if swallowed. Causes mild skin irritation. Toxic to aquatic life with long lasting effects.

**Unknown acute toxicity**

19.0504 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name  | CAS No      | Weight-%  | Trade secret |
|--|-------------|-----------|--------------|
| Sulfentrazone  | 122836-35-5 | 60 - 70   | *            |
| Corn starch  | 9005-25-8   | 5 - 10    | *            |
| Sulfuric acid, mono-C12-18-alkyl esters, sodium salts      | 68955-19-1  | 0 - 4     | *            |
| Sodium alkyl naphthalenesulfonate, formaldehyde condensate | -           | 1 - 5     | *            |
| 2-Butenedioic acid (Z)-, disodium salt                     | 371-47-1    | 0.1 - 0.5 | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

**Description of first aid measures****General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist,

|   |   |
|---|---|
|   | call a physician.   |
| <b>Eye contact</b>                        | Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.   |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.  |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information. |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Burning sensation. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing. Difficulty in breathing. |
|-----------------|--|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

### **5. Fire-fighting measures**

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                                   | Dry chemical, CO2, alcohol-resistant foam or water spray.  |
| <b>Unsuitable extinguishing media</b>                                 | None known based on information supplied.  |
| <b>Specific hazards arising from the chemical</b>                     | During fire, gases hazardous to health may be formed.  |
| <b>Hazardous combustion products</b>                                  | Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.   |
| <b>Explosion data</b>   |  |
| <b>Sensitivity to mechanical impact</b>                               | None.  |
| <b>Sensitivity to static discharge</b>                                | None.  |
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

### **6. Accidental release measures**

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

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust. |
| <b>Other information</b>    | Refer to protective measures listed in Sections 7 and 8.  |

#### **Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so. |
| <b>Methods for cleaning up</b> | Pick up and transfer to properly labeled containers.  |

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Do not breathe dust. Avoid generation of dust.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name            | ACGIH TLV                 | OSHA PEL   | NIOSH  |
|--------------------------|---------------------------|--|--|
| Corn starch<br>9005-25-8 | TWA: 10 mg/m <sup>3</sup> | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction<br>(vacated) TWA: 15 mg/m <sup>3</sup> total dust<br>(vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust |

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance**

|                |                   |
|----------------|-------------------|
| Physical state | Solid             |
| Color          | Off-white         |
| Odor           | Mild bitter       |
| Odor threshold | No data available |

| <u>Property</u>                         | <u>Values</u>                        | <u>Remarks • Method</u> |
|---|--------------------------------------|-------------------------|
| pH                                      | 6.37                                 | 1% dispersion           |
| Melting point / freezing point          |                                      | No data available       |
| Initial boiling point and boiling range |                                      | No data available       |
| Flash point                             |                                      | No data available       |
| Evaporation rate                        |                                      | No data available       |
| Flammability                            |                                      | No data available       |
| Flammability Limit in Air               |                                      |                         |
| Upper flammability or explosive limits  |                                      | No data available       |
| Lower flammability or explosive limits  |                                      | No data available       |
| Vapor pressure                          |                                      | No data available       |
| Vapor density                           |                                      | No data available       |
| Relative density                        |                                      | No data available       |
| Water solubility                        |                                      | No data available       |
| Solubility(ies)                         |                                      | No data available       |
| Partition coefficient                   |                                      | No data available       |
| Autoignition temperature                |                                      | No data available       |
| Decomposition temperature               |                                      | No data available       |
| Kinematic viscosity                     |                                      | No data available       |
| Dynamic viscosity                       |                                      | No data available       |
| <u>Other information</u>                |                                      |                         |
| Explosive properties                    | No information available             |                         |
| Oxidizing properties                    | No information available             |                         |
| Softening point                         | No information available             |                         |
| Molecular weight                        | No information available             |                         |
| VOC content                             | No information available             |                         |
| Liquid Density                          | No information available             |                         |
| Bulk density                            | tap density: 0.551 g/cm <sup>3</sup> |                         |

## 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | None under normal use conditions.         |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | Dust formation.                           |
| Incompatible materials             | Strong oxidizing agents.                  |
| Hazardous decomposition products   | None known based on information supplied. |

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

|             |   |
|-------------|---|
| Inhalation  | Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).                     |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes. |

**Skin contact** Specific test data for the substance or mixture is not available. Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing.

**Acute toxicity**

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (inhalation-dust/mist) 1.7953 mg/l

**Unknown acute toxicity**

19.0504 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

**Component Information**

| Chemical name  | Oral LD50            | Dermal LD50              | Inhalation LC50         |
|--|----------------------|--------------------------|-------------------------|
| Sulfentrazone<br>122836-35-5   | > 2855 mg/kg ( Rat ) | -                        | > 4.14 mg/L ( Rat ) 4 h |
| Sulfuric acid, mono-C12-18-alkyl<br>esters, sodium salts<br>68955-19-1 | > 2000 mg/kg ( Rat ) | > 10000 mg/kg ( Rabbit ) | -                       |
| 2-Butenedioic acid (Z)-,<br>disodium salt<br>371-47-1                  | = 3380 mg/kg ( Rat ) | -                        | -                       |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Target organ effects** Respiratory system. Eyes. Skin.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Chemical name   | Algae/aquatic plants                         | Fish | Toxicity to microorganisms | Crustacea |
|---|--|------|----------------------------|-----------|
| Sulfuric acid, mono-C12-18-alkyl esters, sodium salts<br>68955-19-1 | EC50: =42mg/L (96h, Desmodosmus subspicatus) | -    | -                          | -         |

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

## 13. Disposal considerations

### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

**DOT** Not regulated

**IATA** Not regulated in quantities less than 5 kilograms per individual container. See IATA SP A197

**UN number or ID number** UN3077

**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s.

**Transport hazard class(es)** 9

**Packing group** III

**IATA Technical Name** Sulfentrazone

**Special Provisions** A97, A158, A179, A197, A215

**Description** UN3077, Environmentally hazardous substance, solid, n.o.s. (Sulfentrazone), 9, III

**ERG Code** 9L

**IMDG** Not regulated in quantities less than 5 kilograms per individual container. See IMDG 2.10.2.7

**UN number or ID number** UN3077

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Transport hazard class(es)** 9

**Packing group** III

**EmS-No** F-A, S-F

**Marine pollutant** P

**Marine pollutant** Sulfentrazone

**Special Provisions** 274, 335, 966, 967, 969

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sulfentrazone), 9, III, Marine pollutant

## 15. Regulatory information

### International Inventories

Contact supplier for inventory compliance status

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical name          | California Proposition 65 |
|------------------------|---------------------------|
| Formaldehyde - 50-00-0 | Carcinogen                |
| Naphthalene - 91-20-3  | Carcinogen                |

### U.S. State Right-to-Know Regulations

| Chemical name                   | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Chlorimuron-ethyl<br>90982-32-4 | X          | -             | -            |
| Corn starch<br>9005-25-8        | -          | X             | X            |
| Sodium sulfate<br>7757-82-6     | -          | X             | X            |
| Formaldehyde<br>50-00-0         | X          | X             | X            |
| Naphthalene<br>91-20-3          | X          | X             | X            |

### U.S. EPA Label Information

EPA Pesticide Registration Number 87290-83

## **16. Other information**

|             |                           |                       |                           |                              |
|-------------|---------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 3   | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 3 * | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |



**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**Disclaimer**

**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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**