

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 08-Mar-2023 Revision Date 08-Mar-2023 Revision Number 1

1. Identification

Product identifier

Product Name Willowood Sulfen Cloran

Other means of identification

Product Code(s) 87290-82

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 - Dermal | Category 4 |
|----------------------------------------------------|------------|
| 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 in contact with skin.

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.

Do not breathe dust.

Wear protective gloves/clothing and eye/face protection.

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 ON SKIN: Wash with plenty of water and soap.

Call a doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse.

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

Unknown acute toxicity

74.9704 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 30.0304 % 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 | * |
| Ammonium sulfate | 7783-20-2 | 10 - 20 | * |
| Cloransulam-methyl | 147150-35-4 | 5 - 10 | * |
| Naphthalenesulfonic acids, branched and linear Bu derivs., sodium salts | 91078-64-7 | 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 Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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.

Eye contact 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.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms

persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. 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

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Large Fire

Dry chemical, CO2, water spray or regular foam.

Water spray, fog or regular foam.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Avoid generation of dust.

Hazardous combustion products

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides,

Halogenated compounds.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautionsAvoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Avoid generation of

dust. Do not breathe dust. Do not touch or walk through spilled material.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk.

Methods for cleaning up Cover powder spill with plastic sheet or tarp to minimize spreading. Clean up material with

vacuum equipped with HEPA filter.

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. Ensure adequate ventilation. Do not eat, drink or smoke when using

this product. Avoid generation of dust. Do not breathe 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. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep in properly labeled containers.

Keep/store only in original container. Protect from direct sunlight. Store away from

incompatible materials.

8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

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. Long sleeved clothing.

Respiratory protectionNo 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. Do not breathe dust. Wash hands before

> breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

> > No data available No data available

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Light brown solid Physical state Solid Light brown Color Odor Mildly bitter Odor threshold No data available

Property Values Remarks • Method solution (1 %) pН 5.04

No data available pH (as aqueous solution) No data available Melting point / freezing point Initial boiling point and boiling range No data available No data available Flash point **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 No data available Relative density No data available Water solubility No data available Solubility(ies) No data available Partition coefficient **Autoignition temperature** No data available **Decomposition temperature** No data available

Dynamic viscosity Other information

Kinematic viscosity

No information available **Explosive properties Oxidizing properties** No information available No information available Softening point Molecular weight No information available **VOC** content No information available No information available **Liquid Density**

Bulk density 0.628 g/cm3

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 Incompatible materials. 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. May cause irritation. May be

absorbed through the skin in harmful amounts. Harmful in contact with skin. (based on

components).

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. 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 (dermal) 1,375.30 mg/kg ATEmix (inhalation-dust/mist) 1.5130 mg/l

Unknown acute toxicity

74.9704 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

30.0304 % 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 122836-35-5 | > 2855 mg/kg (Rat) | - | > 4.14 mg/L (Rat)4 h |
| Ammonium sulfate 7783-20-2 | = 2840 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |
| Cloransulam-methyl 147150-35-4 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |
| Naphthalenesulfonic acids, branched and linear Bu derivs., sodium salts 91078-64-7 | = 1790 mg/kg (Rat) | > 500 mg/kg (Rat) | = 3.82 mg/L (Rat)4 h |
| 2-Butenedioic acid (Z)-, disodium salt 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 May cause 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.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity

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

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-------------------------------|----------------------|--------------------------------------------|----------------------------|---------------------|
| Ammonium sulfate 7783-20-2 | - | LC50: =250mg/L (96h, | - | LC50: =14mg/L (48h, |
| 7703-20-2 | | Brachydanio rerio) LC50: =480mg/L (96h, | | Daphnia magna) |
| | | Brachydanio rerio) | | |
| | | LC50: =420mg/L (96h, | | |
| | | Brachydanio rerio) | | |
| | | LC50: =18mg/L (96h, | | |
| | | Cyprinus carpio) | | |
| | | LC50: 32.2 - 41.9mg/L | | |
| | | (96h, Oncorhynchus | | |
| | | mykiss) LC50: 5.2 - 8.2mg/L | | |
| | | (96h, Oncorhynchus | | |
| | | mykiss) | | |
| | | LC50: >100mg/L (96h, | | |
| | | Pimephales promelas) | | |
| | | LC50: 123 - 128mg/L | | |
| | | (96h, Poecilia reticulata) | | |
| | | LC50: =126mg/L (96h, | | |
| | | Poecilia reticulata) | | |

Persistence and degradability

No information available.

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|------------------------------------------------------------|-----------------------|
| Ammonium sulfate | -5.1 |
| 7783-20-2 | |
| Naphthalenesulfonic acids, branched and linear Bu derivs., | -0.27 |
| sodium salts | |
| 91078-64-7 | |

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

products

Waste from residues/unused

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

197

UN number or ID number UN3077

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

Transport hazard class(es) 9
Packing group | |

IATA Technical Name
Special Provisions
Sulfentrazone, Cloransulam-methyl
A97, A158, A179, A197, A215

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Sulfentrazone,

Cloransulam-methyl), 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)

Packing group

EmS-No

F-A, S-F

Marine pollutant

Marine pollutant Sulfentrazone, Cloransulam-methyl

Special Provisions 274, 335, 966, 967, 969

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Sulfentrazone, Cloransulam-methyl), 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | SARA 313 - Threshold Values % |
|------------------------------|-------------------------------|
| Ammonium sulfate - 7783-20-2 | 1.0 |

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 does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Ammonium sulfate 7783-20-2 | - | X | Х |
| Glycerin 56-81-5 | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number 87290-82

16. Other information

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

Issuing Date 08-Mar-2023

Revision Date 08-Mar-2023

Revision Note Initial Release.

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